



FINAL PROJECT - TI 141501

**IMPROVEMENT OF INVENTORY CONTROL
SYSTEMS FOR RAW MATERIAL IN A
MAKE-TO-ORDER COMPANY**

**ROBERTUS WILLY GUNAWAN
NRP 2511 100 118**

**SUPERVISOR
Prof. Ir. I. Nyoman Pujawan, M. Eng, Ph. D, CSCP**

**DEPARTMENT OF INDUSTRIAL ENGINEERING
Faculty of Industrial Technology
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Surabaya 2015**

APPROVAL SHEET

IMPROVEMENT OF INVENTORY CONTROL SYSTEMS FOR RAW MATERIAL IN A MAKE-TO-ORDER COMPANY

FINAL PROJECT

Proposed as a Requisite to Graduate in Industrial Engineering Major and to
Achieve a Bachelor Degree in Department of Industrial Engineering

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Institut Teknologi Sepuluh Nopember

Author:
ROBERTUS WILLY GUNAWAN
NRP. 2511 100 118

Approved by Supervisor


Prof. Ir. I. Nyoman Pujiawan, M. Eng, Ph. D, CSCP

NIP196901071994121001


SURABAYA, JUNE 2015

IMPROVEMENT OF INVENTORY CONTROL SYSTEMS FOR RAW MATERIAL IN A MAKE-TO-ORDER COMPANY

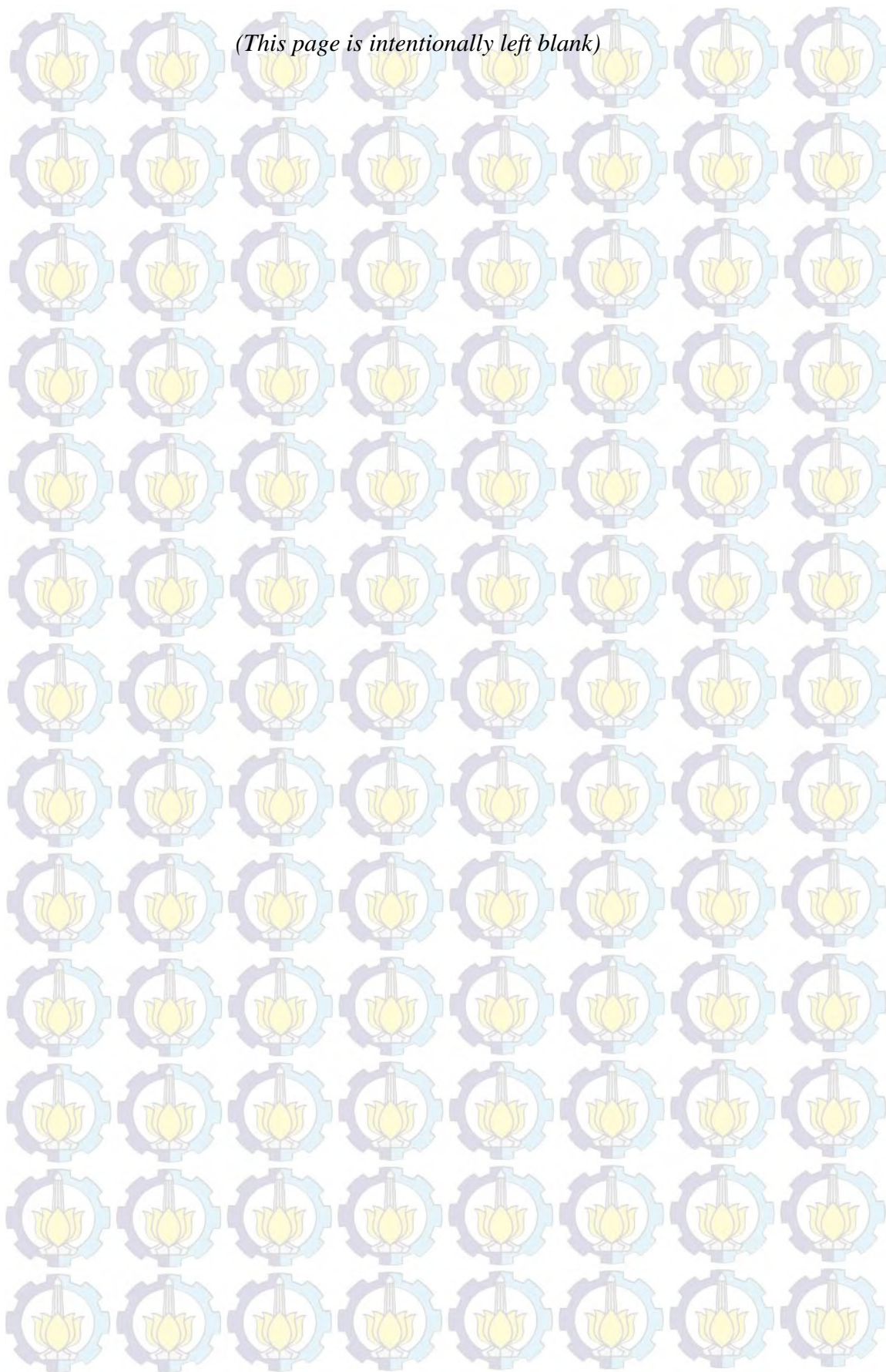
Student Name : Robertus Willy Gunawan
Student ID : 2511100118
Supervisor : Prof. Ir. I. Nyoman Pujawan, M. Eng., Ph. D., CSCP.

ABSTRACT

In any manufacturing industry, inventory is always an important part to be controlled; companies have to design a system that is able to avoid stock outs while keeping the stock at minimum. Nonetheless, to some extents, managing inventory is utterly complicated. In many cases, companies turn into fiasco when they design an efficient inventory control system, especially for make-to-order companies which deal with extremely high demand uncertainty. In this paper, several inventory control systems such as continuous review (s, Q system) and periodic review (R, s, S system) are investigated and compared to the existing inventory control system in the company. The objective is to obtain a better inventory control system for every raw material category in terms of total cost and service level. At the very first phase, considering usage volume and the coefficient of variance, several raw material samples are taken. This research develops a Monte Carlo simulation for generating probabilistic demand and shipment lead time. In carrying out simulation for generating demand, author uses several replications to evade improper results, which could lead to wrong decisions. Each scenario for inventory control system is evaluated in terms of total cost and service level. Heuristic methods for both continuous and periodic inventory control systems are also used to test the sensitivity of the parameters. This paper brings an important recommendation to the company as well as insight for make-to-order companies in general. Since cost is the ultimate output for profit-based companies including Karya Makmur Baru, Ltd., the proposed inventory control system for each raw material category could be implemented by the company as a means to reduce the total inventory cost while maintaining the service level target. The inventory cost reduction ranges from 39.69% to 72.85%, with the minimum service level of 98.48%.

Keywords: Continuous Review, Heuristic Method, Inventory Control System, Make-to-order Company, Monte Carlo Simulation, Periodic Review

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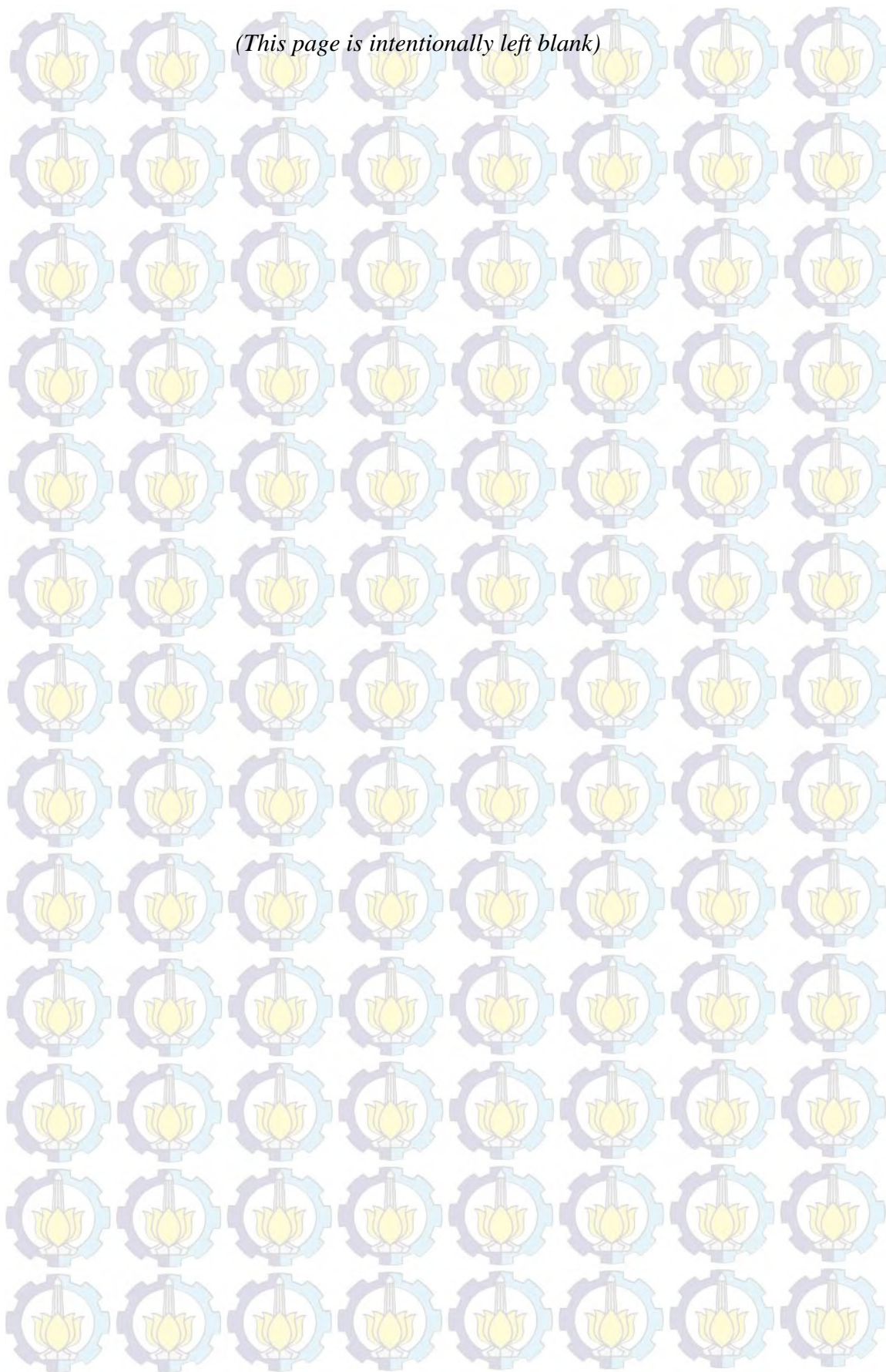
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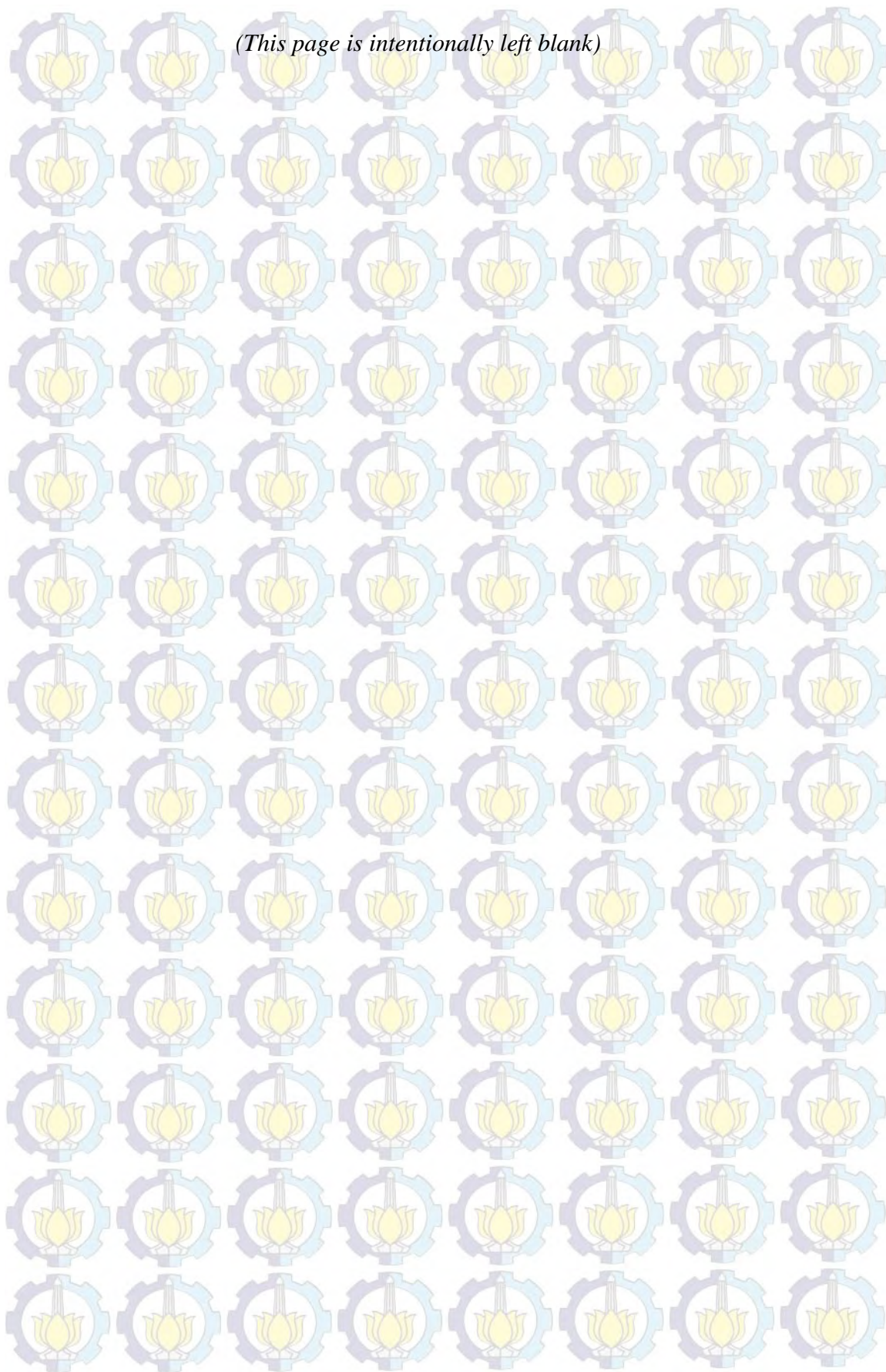
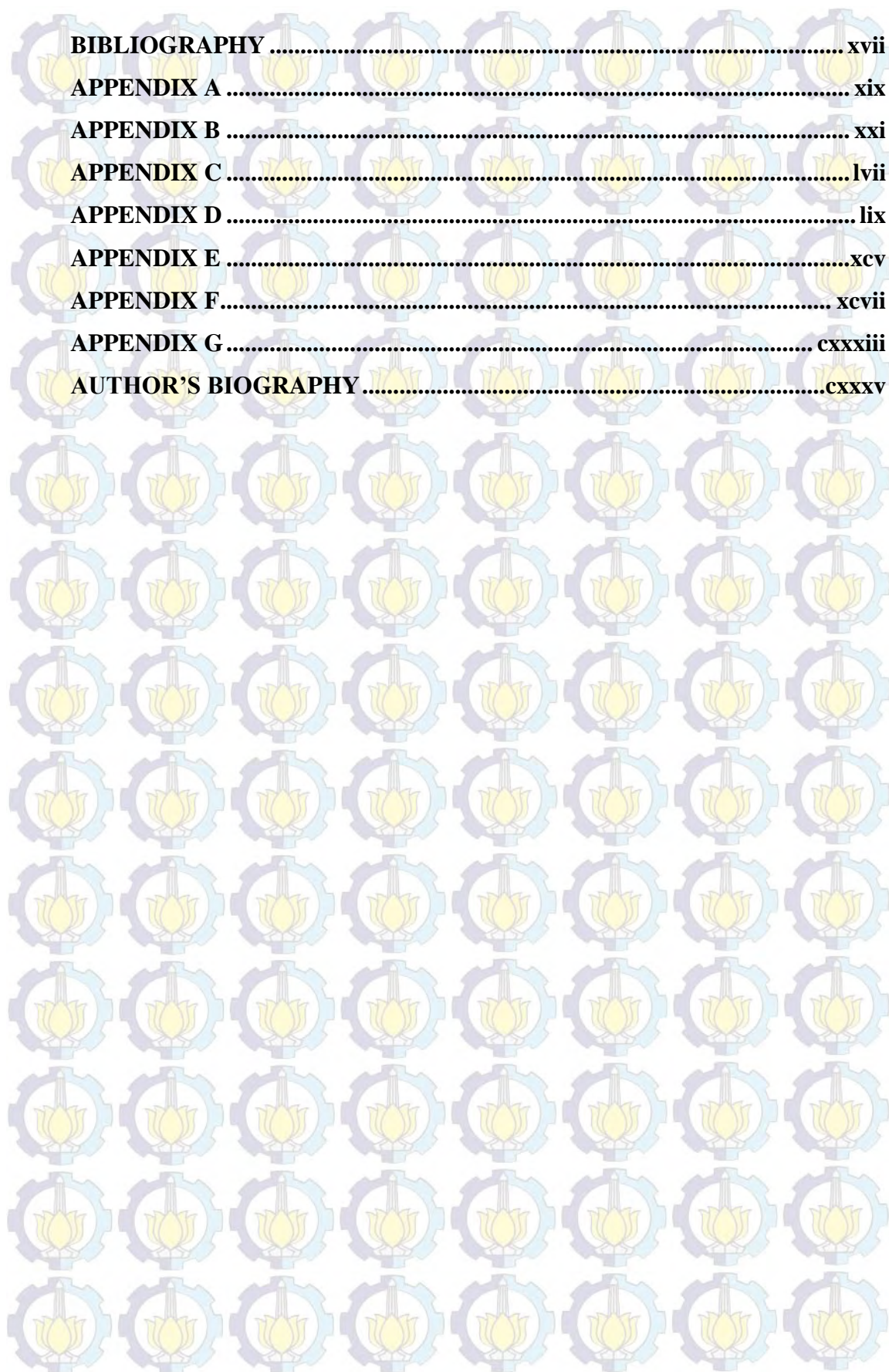


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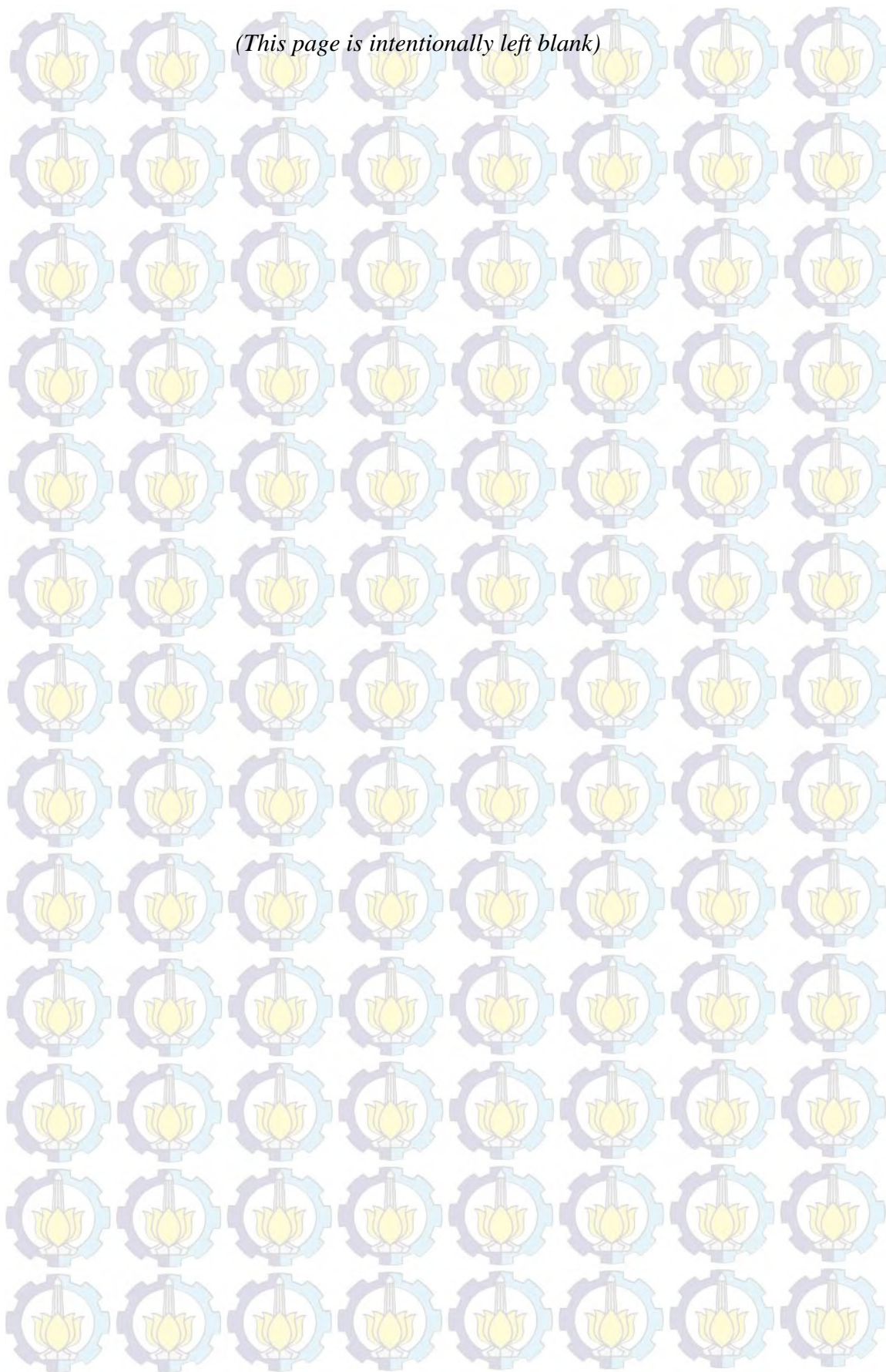
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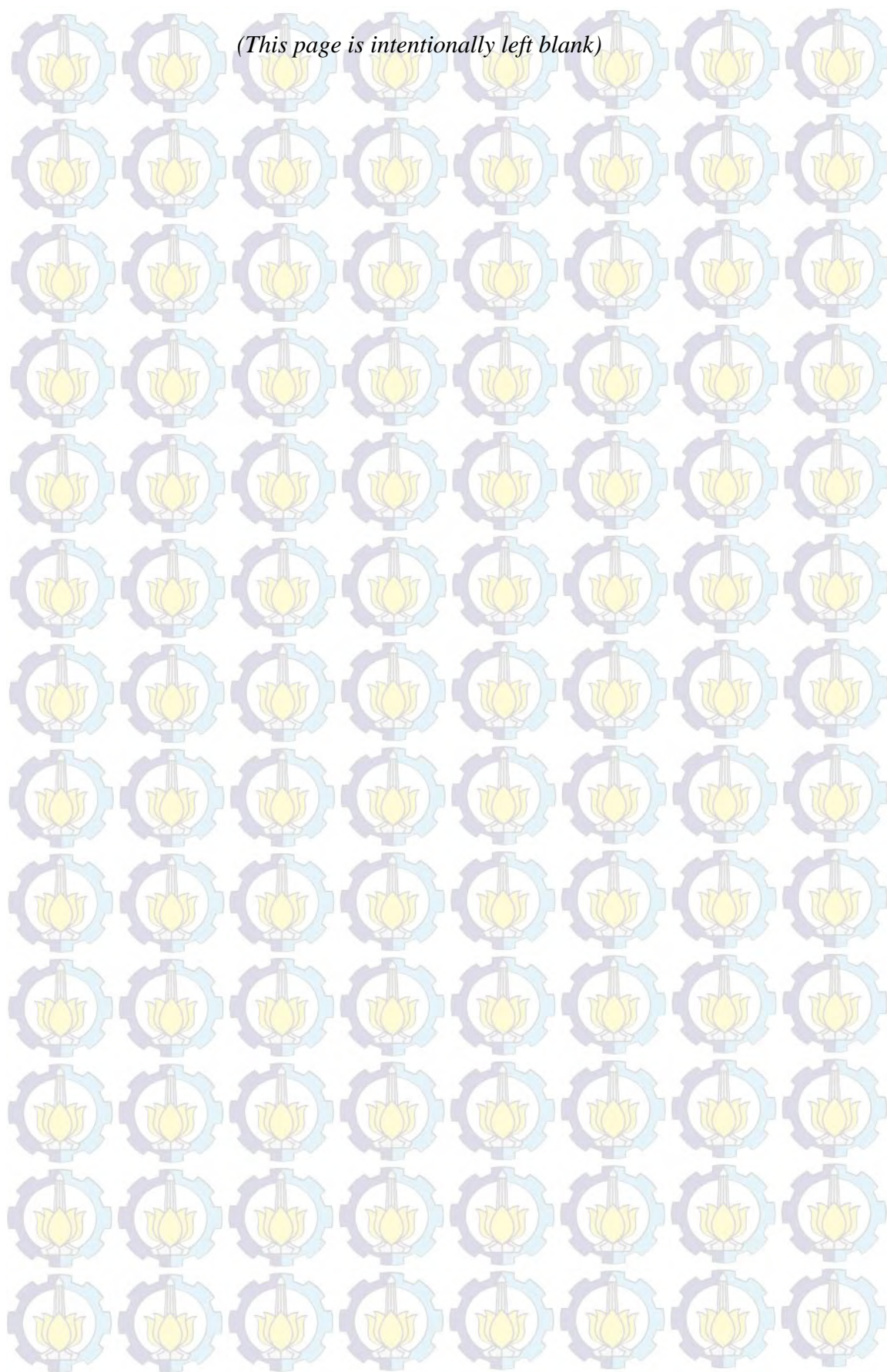
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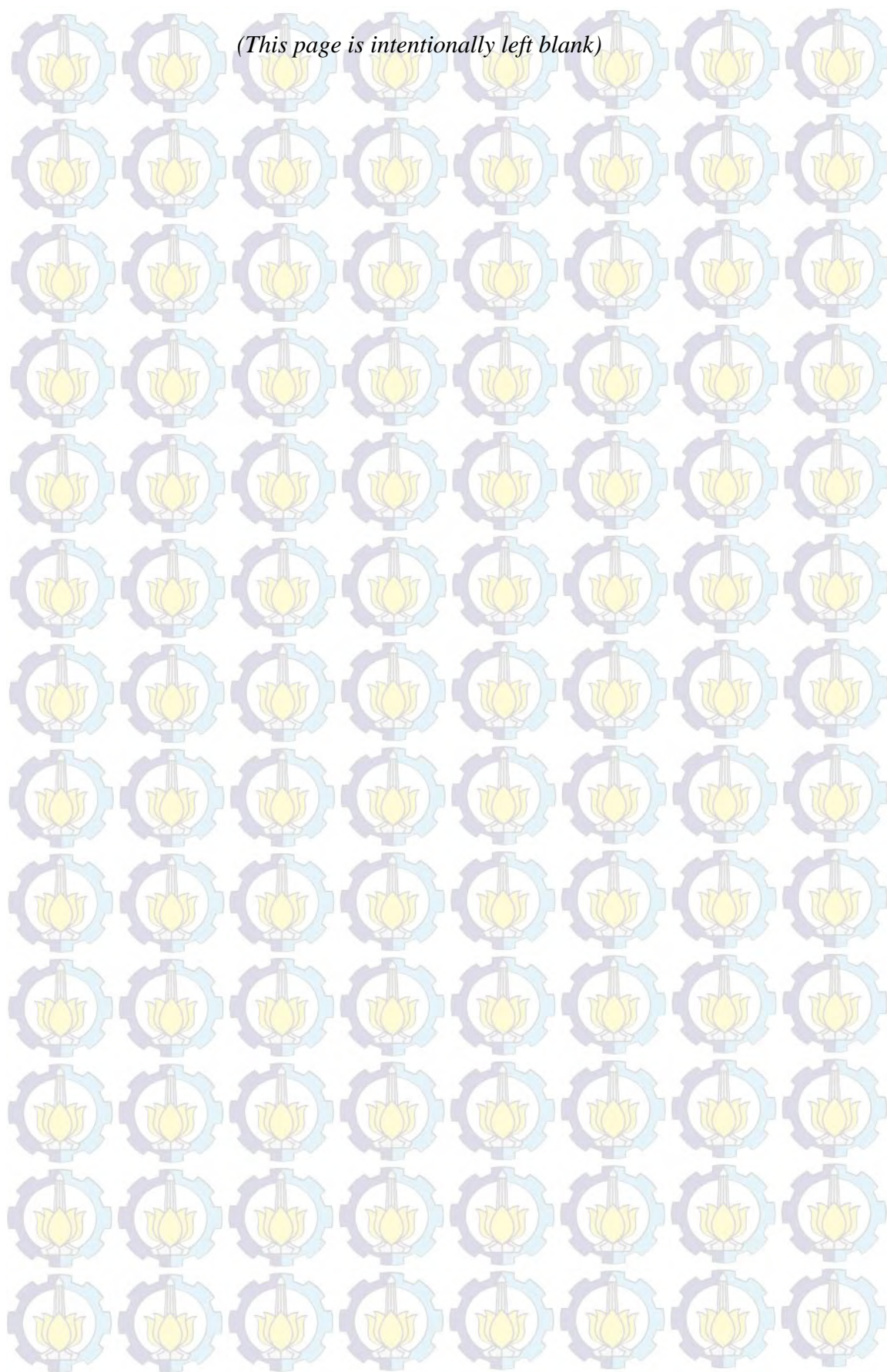
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AUTHOR'S BIOGRAPHY

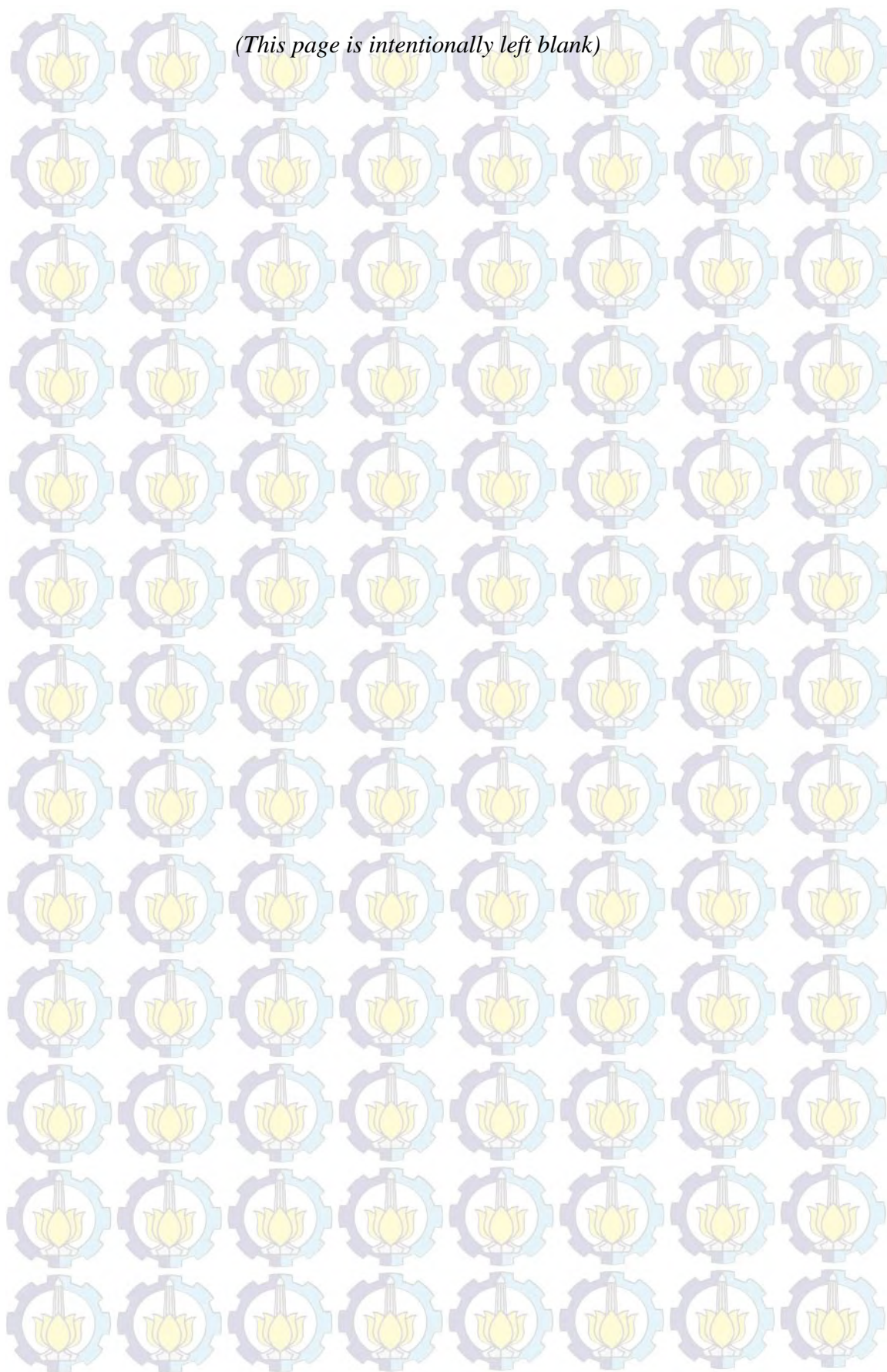


The author, Robertus Willy Gunawan, was born in Surabaya, Indonesia on 20th April 1993. The last child of Antonius Herlambang Gunawan and Siany Yulianti, author went to St. Clara Surabaya Elementary School (1999-2005) and continued to St. Mary Surabaya Junior High School (2005-2008). For senior high school, the author completed the study in St. Louis I Surabaya (2008-2011). During his high school years, the author was actively involved in organizations and activities.

The author was in sports and arts department of school organization (2006-2007), as well as became school magazine journalist and photographer (2007-2008). In 2010, the author represented Indonesia as a delegate in International Environmental Caretakers conference. Several awards, such as second runner up in Petra Christian University Industrial Competition (2010), second runner up in University of Surabaya Industrial Games XIX (2010), and second runner up in University of Surabaya Business Economics Challenge (2011) had encouraged the author to study further in Industrial Engineering major in Institut Teknologi Sepuluh Nopember (ITS) Surabaya.

As a university student, the author was selected for exchange student program twice; one semester to Universiti Teknikal Melaka, Malaysia (2013), one semester to Dankook University Cheonan Campus, South Korea (2014). After returning to home country, the author had been actively engaged in several projects with lecturers. The author was also a laboratory assistant in Laboratory of Logistics and Supply Chain Management (LSCM) where he helped the faculty members in laboratory activities for students and industrial practitioners (2014-2015). With his interest in Logistics and Supply Chain Management field, the author was an intern at Japanese company, Toyota Auto2000, Department of Logistics in Jakarta (2014).

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CHAPTER I INTRODUCTION

This chapter contains the background, problem formulation, objectives, benefits, and research scope. In the last part of this chapter, report outline of the research is explained.

1.1 Background

The issue of ASEAN Economic Community (AEC), which will start in December 2015, gives influential impacts to national economic condition. In spite of wide and numerous opportunities that could be enabled by AEC, in some extents, this could be a huge threat for companies in Indonesia. This issue allows countries in South East Asia to strive against each other without any barriers, including free taxes and product flows. Since there are no taxes applied, it is obvious that countries outside Indonesia would try to come and conquer national market. Domestic companies have to be aware of this and they should also strengthen and intensify their export activities.

On the authority of Indonesia National Statistics Bureau (2015), annual printing and paper craft export in Indonesia fluctuated with quite small deviation for more than a decade starting from 2002. From Figure 1.1, it could be seen that the trend, however, shows positive increase for the time period. Export quantity reached its all-time peak in 2010 with almost 4600 tons delivered to foreign countries, while only 300 tons less were exported in 2013.

Printing and paper craft company could be categorized either as make to stock (MTS) or make to order (MTO) business. MTS printing and paper craft companies deal with continuous production and distribution, while MTO companies deal with customer orders. Owing to the fact that demand uncertainty from customers is far more unforeseen, MTO businesses suffer worse in order to design its appropriate inventory control system. In addition, up to this time, there are very limited researches taking account of MTO businesses. On account of some considerations explained earlier, *Karya Makmur Baru Ltd.*, is chosen as the research object.

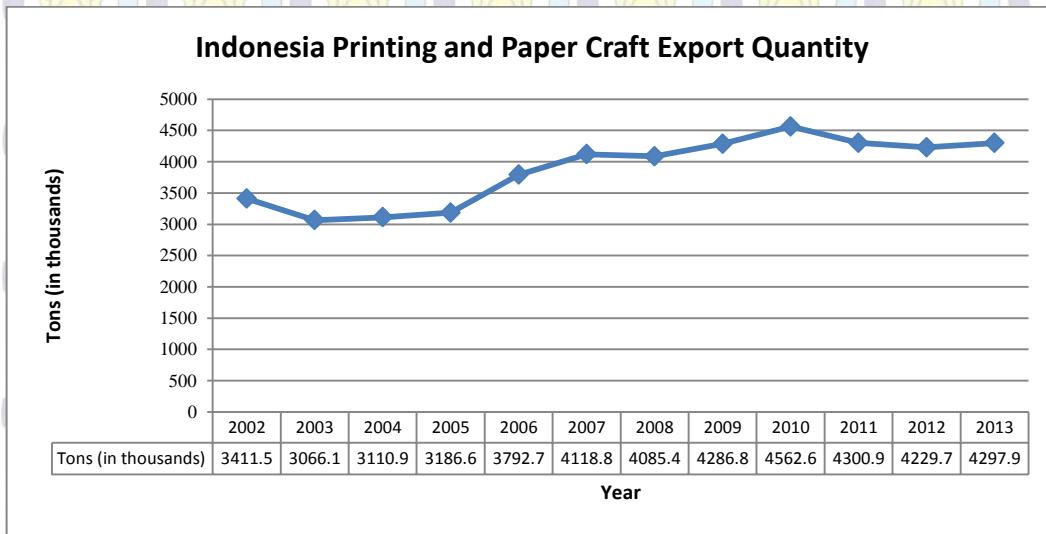


Figure 1. 1 Indonesia Printing and Paper Craft Export Quantity

(Source: Indonesia National Statistics Bureau)

In general, there are three different kinds of inventory carried by a company in the warehouse i.e. raw materials and components, work in progress, as well as finished goods. Ballard (1996) defined raw materials and components as the products that are externally purchased and procured by the company; work in progress as products in which value have been added yet not completely manufactured; finished goods and as products which are ready to be delivered to fulfill demand. Nevertheless, in printing and paper craft MTO business, finished goods inventory would not influence much for the completed products will be directly delivered to customers.

According to a survey conducted by IOMA (2005), Figure 1.2 depicts the distribution of inventory-carrying costs value for all industries in various sectors. While many company simply have no idea about the exact carrying cost, majority allocate the carrying cost in between 10 percent to 14 percent of the value. With such distribution – and neglecting unidentified values – carrying cost has the average value of 12.3 percent.

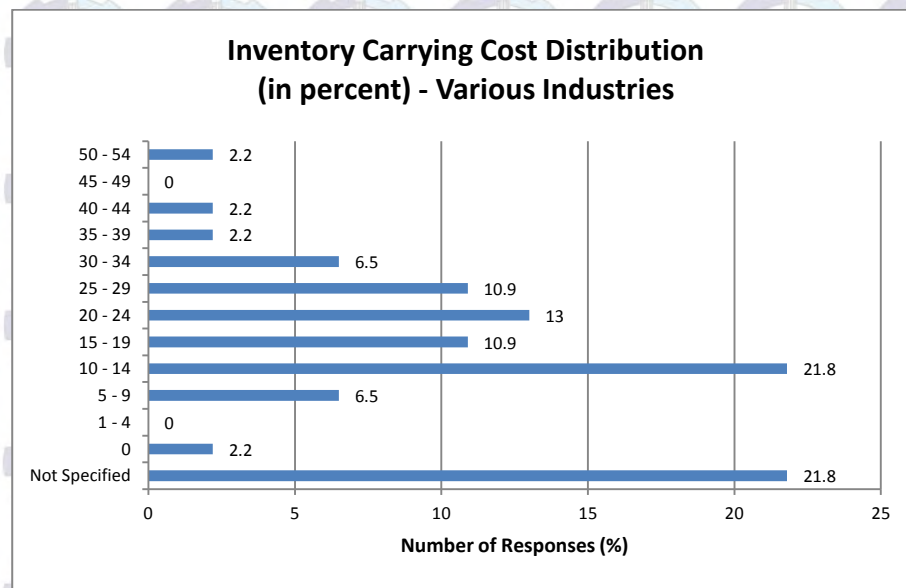


Figure 1. 2 Inventory Carrying Cost Distribution

(Source: "Inventory Carrying Cost: Critical Element in Purchasing Decisions, But Applied Sparingly," Supplier Selection & Management Report, (IOMA, New York, February, 2005.), p. 2)

Knowing the fact that carrying inventory in some sort is pricey; it is crucial for the company to optimize the inventory quantity in order to ensure sufficient inventory is available to fulfill anticipated demand at a certain service level through several strategies. The drawback found is to design a strategy that would minimize both inventory holding cost and backorder cost. Inventory holding cost occurs when the inventory amount surpasses the requirement, while backorder cost is found when inventory is unavailable and/or its amount could not fulfill the demand. For the company, backorder cost is obtained from multiplication of profit rate and average order value. *Karya Makmur Baru Ltd.* owns a profit rate of 20% and average order cost of Rp.7,781,508.00, resulting one stock out cost of Rp.1,556,301.60. An order will be lost once the raw material unavailability period exceed the agreed tolerance time from the customers.

Currently, *Karya Makmur Baru Ltd.* orders high usage raw material biweekly, normal usage raw material every month, every three months for low usage raw material, and/or whenever on hand inventory cannot accommodate the demand issued by customers. Besides, there is no such scientific calculation done to determine the order size; company orders approximately five times of average

demand to cope with order on hand, projected order on hand, and projected order. This strategy suffers the company for stocking too much raw materials in some specific time, while losing orders in the others.

In controlling inventory, there are two major strategies that could be implemented i.e. periodic and continuous review. As its name implies, periodic review designates a company to check inventory level once every specified time. In contrast, continuous review has no specific time period and replenishment is done once the stock level is less than reorder point (ROP). In this research, existing condition will be evaluated as well as compared to several inventory control strategy scenarios to assess which strategy suit the company the best. On top of that, the research also provides company with the total inventory cost reduction when recommended inventory control system is implemented.

1.2 Problem Formulation

Based on the background that has been explained in the previous subchapter, this research is designed to evaluate existing inventory control system in *Karya Makmur Baru Ltd.*, as well as compare it with several other inventory control systems in order to come up with most efficient inventory control system for each raw material category. The chosen system should be able to diminish raw material stock out yet keep the overstock at minimum, resulting the least total inventory cost.

1.3 Objectives

This research aims at several objectives, which are to:

1. Determine most efficient inventory control system for each raw material category.
2. Provide the company with the information of service level and inventory cost reduction by implementing recommended inventory control system.

1.4 Benefits

The benefits from this research are to:

1. Enrich the company owner with the knowledge and understanding in which inventory control is one activity that affects company's strategic business.
2. Minimize total inventory cost that is burdened to the company.

1.5 Scope

The scope of this research is defined by limitations and assumptions.

1.5.1 Limitations

Some limitations set for this research are:

1. There are three different inventory control systems studied for the company, which are existing inventory control system, continuous review with (s, Q system), and periodic review with minimum and maximum stock level (R, s, S system).
2. Inventory control system scenarios are only conducted for raw material inventory; work in process and finished goods inventory are neglected.

1.5.2 Assumptions

Some assumptions set for this research are:

1. Every order arrives in full quantity with zero defect.
2. Storage capacity is unlimited.
3. Demand in the projected year follow historical data demand's behaviour.
4. Raw material could not be added in the middle of production process.
5. There is no delivery from the previous year that is not yet arrived.

1.6 Report Outline

The following systematic framework will be used in structuring the content of this research:

CHAPTER I INTRODUCTION

This chapter describes the background, problem formulation, objectives, benefits, and scope of this research. In the last part of this chapter, report outline of the research is explained.

CHAPTER II LITERATURE REVIEW

This chapter explains theories and concepts based on existing literatures that have been developed and are used for the research. Some concepts and theories provided in the literature reviews are inventory, ABC analysis, Monte Carlo simulation, customer service level, as well as inventory control system.

CHAPTER III RESEARCH METHODOLOGY

This chapter describes all phases conducted in this research so that the research could be done systematically. Generally, the research methodology contains observation and literature study, data collection, data processing, sensitivity analysis, data interpretation and analysis, and, lastly, conclusion and recommendation.

CHAPTER IV DATA COLLECTION AND PROCESSING

This chapter includes all processes in order to prepare data to conduct the experiment. Those processes are data collection, data processing, as well as scenario generation and experiment.

CHAPTER V ANALYSIS AND INTERPRETATION

This chapter includes analysis and interpretation of the results of all scenarios that conducted in the previous chapter. Several analyses regarding to raw material classification and the inventory control system decision for each sample will be carried out.

CHAPTER VI CONCLUSION AND RECCOMENDATION

This chapter concludes the whole research and contains recommendations for further researches as well as for the company.

CHAPTER II

LITERATURE REVIEW

This chapter explains theories and concepts based on existing literatures that have been developed and are used for the research. Some concepts and theories provided in the literature reviews are inventory, ABC analysis, Monte Carlo simulation, customer service level, as well as inventory control system.

2.1 Inventory

Inventory is defined as available material, or other tangible assets, stock on hand, which can be calculated and measured in a specific period of time (Tersine, 1994). Inventory control and management are common problems, which are faced by various organizations in economic sector. Generally, inventory exists in manufacturers, wholesalers, retailers, distributors, hospitals, and many others. Inventory exists due to uncertainty, location differences, and economical motives (Pujawan, 2010)

The main objective of inventory is to meet anticipated demand at a predetermined service level. Stock out and sudden production stop will likely to be imposed on companies with too small inventory level (Rahayu, 2014). As a further matter, Sequera and Andy (2013) have the same mind with Rahayu and add a belief that surplus inventory on hand is not desirable for a number of reasons, such as listed in Table 2.1.

Table 2. 1 The Cost of Surplus Inventory

Opportunity Cost/ Financing Cost	Surplus assets have zero value to the company until they are converted into cash in the course of operations.
Poor Space Utilization	Surplus assets occupy space that could be used for productive, revenue-generating activity.
Depreciation Expense	Relative to other assets, surplus assets depreciate more rapidly in value as they become obsolete.
Tracking Expense	The cost of resources allocated to track surplus assets could be better utilized in other activities.
Maintenance Costs	While sitting idle, some surplus assets must be maintained to keep them in good operating condition.

Table 2.1 The Cost of Surplus Inventory (continued)

Damage and Repair	Surplus inventory is subject to damage in the warehouse resulting in potential repair costs and potential write-off.
Shrinkage	Surplus inventory is subject to loss and shrinkage.
Insurance Costs	Surplus assets must be insured against damage.
Higher Taxes	Surplus assets may increase the company's property tax.
Lower ROA	Surplus assets reduce a company's ROA (Return on Assets). A low ROA represents inefficiencies and impacts stock price.

Source: (Sequera and Andy, 2013)

Tersine (1994) believes inventory has several key functions in fulfilling company's needs, including:

1. Minimize the risk of raw materials, or any other desired goods, delivery lateness which could disturb production process.
2. Minimize the risk of accepting low quality raw materials, or any other goods, which have been ordered.
3. Minimize the risk of inflation.
4. Minimize the risk of stock out that leads to lost sales.
5. Maintain customer's goodwill (opportunity cost).
6. Increase customer service level, since availability of product gets higher.
7. Can be allocated to stock seasonal raw material so that company will not suffer from raw material scarcity in market.

According to Ballou (2004), there are three main costs that influence the decision of inventory control system. Those costs are procurement cost, carrying cost, and stock out cost. Those costs are co-relational and Figure 2.1 exhibits the relationship between them.

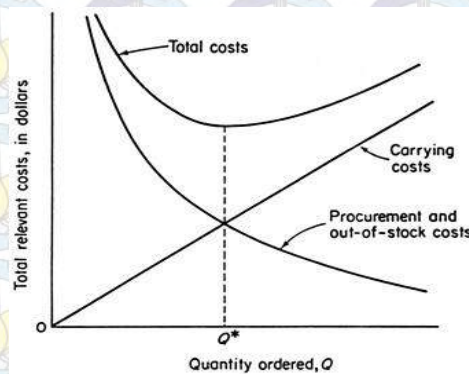


Figure 2. 1 Inventory Costs Trade-Off (Ballou, 2004)

a. Procurement Cost

When an order is placed, there are several relevant costs related to procurement costs, such as: setup order cost, delivery cost, and order cost. Transportation cost can be categorized inside or outside procurement cost, subject to each company. Costs included in procurement cost are mostly fixed and not sensitive to order size. However, such costs as material handling cost and transportation cost is not fixed because it depends of the order size.

b. Carrying Cost

There are four cost categories included in carrying cost, which are: space cost, capital cost, inventory service cost, and inventory risk cost. Each category is explained such as follows.

- Space Cost

When company uses outsource warehouse, space cost is measured based on materials weight and/or volume in certain period of time. In case the company solely owns the warehouse, space cost captures operational activity in the warehouse.

- Capital Cost

Capital cost occurs because of goods value. Even though the cost is intangible and very subjective compared to other carrying costs, capital cost is responsible for more than 80% of the total

inventory cost (Ballou, 2004). To some extent, capital cost is relatively difficult to be measured and several approaches (e.g. hurdle rate or average return on investment) are implemented to calculate this.

- **Inventory Service Cost**

Insurance and tax are covered in inventory service cost. Insurance is an attempt to protect goods in warehouse from combustion, natural disaster, and robbery. On the other hand, tax is little part of the total cost in which company is responsible to pay for.

- **Inventory Risk Cost**

Inventory risk cost is originated from depreciation value of the goods, including ceasing to function. Inventory risk cost value is estimated from expenditure burdened to company to rework the goods as a means to make them functioned and can be used for production process or sold to customers.

c. Stock Out Cost

Stock out cost can be distinguished into two different terminologies, which are lost sales and back order. Lost sales terminology used when customers cannot obtain their desired good in a point of time and they decided not to wait until when it is available. On the contrary, back order is a condition when customers do not mind to long for goods availability. In such case, sales is not lost but only postponed. As a result of it, several additional transportation cost and inventory cost might be found.

2.2 ABC Analysis

Product classification is essential in multi-product inventory system (Nahmias, 2009). ABC classification, also known as ABC analysis, in fact, is an efficient and most widely employed technique for inventory classification in organizations. ABC analysis accounts for annual dollar usage for classification of

inventory items in one year. This analysis that is based on Pareto principal is an easy to understand method (Torabi, et. al, 2012).

ABC Analysis divides the inventory items into the three classes (Ballou, 1998). Those classes are defined as such.

1. A class (most important) is a class consists 20% of the total item number, which contribute to 80% of the total value.
2. B class (less important) is a class consists 30% of the total item number, which contribute to 15% of the total value.
3. C class (least important) is a class consists 50% of the total item number, which contribute only to 5% of the total value.

ABC analysis method is carried out following several steps, such as explained.

1. Determine annual usage value by multiplying unit price and annual usage unit.
2. Sort the items in descending order, starting from the item that has biggest usage percentage relative to total annual spending.
3. Calculate the relative cumulative annual spending.
4. Determine items that categorized in class A, class B, and class C, based on the specified bound.

2.3 Monte Carlo Simulation

Monte Carlo simulation is defined as a kind of simulation that relies on repeated random sampling and statistical analysis to generate results. This method of simulation is much related to random experiments, experiments for which the specific result is not known in advance. Monte Carlo simulation is very helpful to methodically investigate the complete range of risk associated with each risky input variable (Raychaudhuri, 2008).

The following steps are commonly performed for the Monte Carlo simulation of a physical process.

1. Observing and recording variable inputs that are used for generating results.
2. Defining probability distribution of main variables.
3. Calculating the cumulative distribution for every variable.

4. Determining interval for each variable.
5. Generating random value for cumulative distribution probability to obtain variable value to be used in simulation.
6. Reiterating the simulation continuously.

2.4 Customer Service Level

Customer service level is the desired probability not to face stock outs in ordering cycle (Lee & Larry, 2004). In many cases, customer service level is one of key performance indexes to measure supply chain reliability. Based on the explanation of Yoo, et al. (2008), customer service level indicates the ability of company to fulfill demand from customers using on hand stock. The higher customer service level specified by a company, the more inventories needed to be stocked. Indeed, this lead to extortionate inventory cost.

Two common service level parameters used are service per order cycle and service per units demanded.

1. Service per Order Cycle

Service level which is calculated from service per order cycle frequency depicts the probability of stock out during lead time. This approach emphasizes on how often service per order cycle occurs. In another word, service per order cycle (SL_c) is defined as the fraction of order cycle without stock out.

$$SL_c = 1 - \frac{\text{number of cycles with stockout}}{\text{total number of order cycle}} \quad (2.1)$$

$$SL_c = 1 - P(M > B)$$

Where $P(M > B)$ is the probability of stock out during lead time.

2. Service per Units Demanded

Service level which is calculated from service per units demanded captures the number of stock outs during lead time. Service per units demanded (SL_u) shows the satisfaction percentage of demand fulfillment.

$$SL_u = 1 - \frac{\text{number of stockout units}}{\text{total number of demand units}} \quad (2.2)$$

$$SL_u = 1 - P(M > B)$$

Where $P(M > B)$ is the probability of stock out during lead time.

2.5 Inventory Control System

In inventory control system, it is essential to determine several fundamentals, such as: how often the inventory control has to be monitored, replenishment time, and order size (Silver & Peterson, 1998). There are two inventory control system are often used in practice, those are continuous review and periodic review.

2.5.1 Continuous Review (s, Q System)

As the name implies, continuous review system, also referred to perpetual system and fixed-order-quantity system, has an approach to continuously track and check inventory level. An order is placed following certain order lot size (Q) once the level is reached predetermined inventory reorder point (ROP); whenever the inventory on hand decreases to ROP, a new order is placed to replenish the stock of inventory (Russel and Taylor, 2000). In continuous review system, when demand and lead-time are not uncertain, safety stock is added as a hedge against stock out.

In this research, heuristic simulations for (s, Q) system are carried out in order to obtain optimum decision variables. Reorder point is annotated as s, while order lot size is annotated as Q.

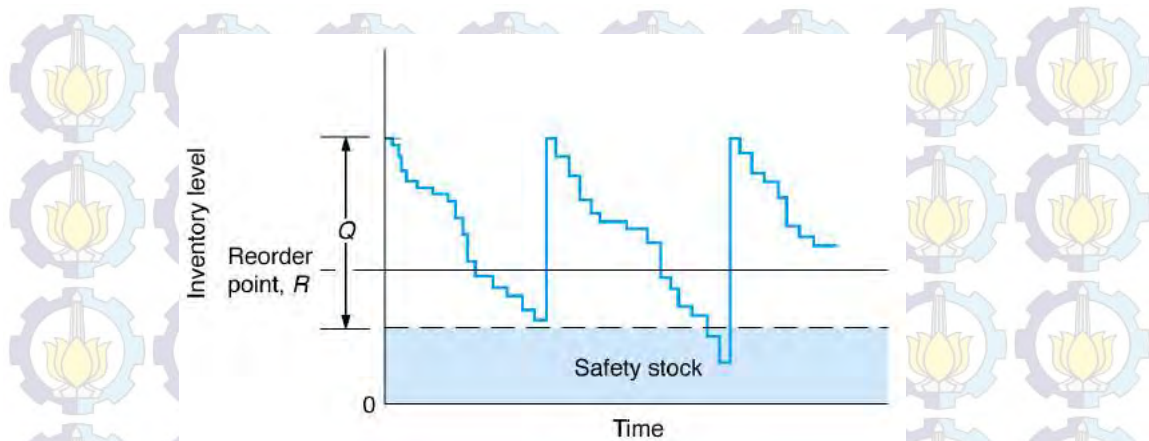


Figure 2. 2 Continuous Review Inventory Control Systems (Russel and Taylor, 2000)

Here are the inventory profiles in continuous review (Tersine, 1994):

$$Q^* = \sqrt{\frac{2\mu k}{h}} \quad (2.3)$$

$$SS = Z\sqrt{(\sigma_d)^2 L + (\sigma_L)^2 d^2} \quad (2.4)$$

$$D_L = d \cdot L \quad (2.5)$$

$$ROP = SS + D_L \quad (2.6)$$

Where,

Q^* = optimum order size

μ = average annual demand

k = order cost per lot

h = holding cost per unit per year

SS = safety stock

Z = normsiv of service level

σ_d = standard deviation of daily demand

σ_L = standard deviation of lead time

D_L = average demand during lead time

d = average demand per period

L = average lead time of replenishment

ROP = reorder point

The advantage of continuous review is to address the situation where demand is high but the disadvantage is variable order quantity. The supplier can make mistakes more often and they would prefer the customers who ordered the fixed order quantity.

2.5.2 Periodic Review

Periodic review, also referred to as a fixed-time-period system, indicates that inventory status tracked at regular periodic intervals and reorder was made to raise the inventory level to the point of a predefined (Russel and Taylor, 2000). In other words, order size is flexible and placed every specified period of time.

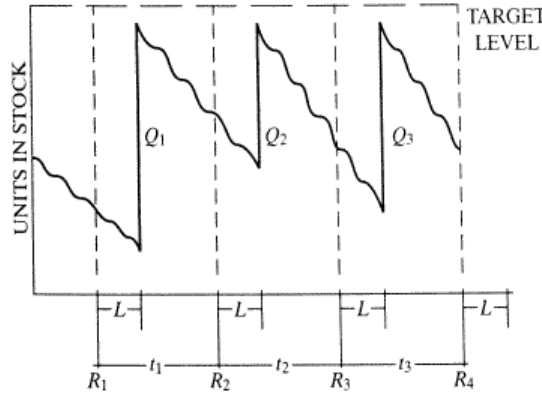


Figure 2. 3 Periodic Review Inventory Control Systems (Russel and Taylor, 2000)

Here are the inventory profiles in periodic review (Tersine, 1994):

$$T^* = \sqrt{\frac{2k}{h\mu}} \quad (2.7)$$

$$SS = Z\sqrt{(\sigma_d)^2(T+L) + (\sigma_L)^2d^2} \quad (2.8)$$

$$D_{T+L} = d(T+L) \quad (2.9)$$

$$OUL = SS + D_{T+L} \quad (2.10)$$

Where,

T^* = optimum review interval

D_{T+L} = average demand during $T+L$

OUL = order up to level

In this system, the inventory level is not necessarily monitored at all time, so it leads to less or even no record keeping required. In contrast, the main drawback is limited direct control. This typically results in larger inventory levels for a periodic inventory system compared to continuous system to guard against unexpected stock outs early in the fixed period. Such a system also requires that a new order quantity be determined each time a periodic order is made.

2.5.2.1 Order-up-to-Level (R, S) System

Order-up-to-level system reviews inventory level with the interval of R period. In every review, replenishment is placed so that inventory level can be arose to Rahayu (2014) states that order-up-to-level system is only suitable for anticipating demand that follows normal or Poisson distribution.

2.5.2.2 Combination between (s, S) and (R, S) System: (R, s, S) System

In previous inventory control system, demand is assumed to follow normal or Poisson distribution. Since the demand in make-to-order companies does not show any trend or patterns (lumpy), order-up-to-level inventory control system is not appropriate.

In this research, (R, s, S) system, is chosen for periodic review inventory control system. Heuristic simulations are carried out as a means to find optimum decision variables. R is defined as review period interval, s is reorder point, and S is maximum level of inventory. In this system, once inventory level reach s point, order is placed to bring the inventory level to S . Conversely, when it has not reached s point, company does not replenish the inventory until the following review period R .

2.6 Previous Researches

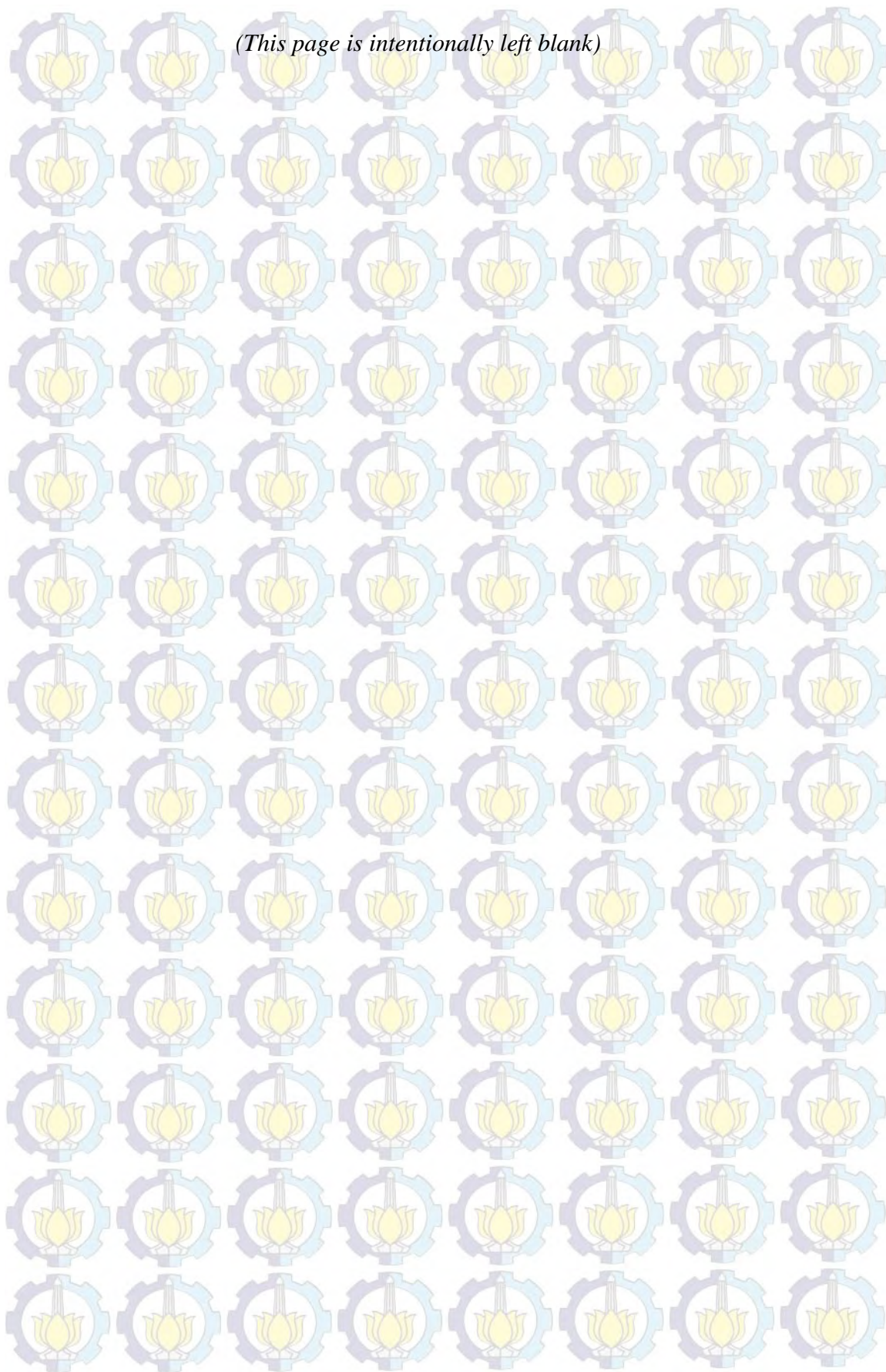
There have been several researches with inventory control system issue conducted. However, inventory control system for make to stock company has rarely been studied. In most cases, researches only focus on consumable products. Table 2.2 summarizes and compares previous researches conducted with this research.

Table 2. 2 Comparison between Previous and Current Researches

Parameter	Previous Research			This Research
Year	2009	2010	2014	2015
Type	Undergraduate Research	Undergraduate Research	Undergraduate Research	Undergraduate Research
Author	Wirawan Aditya S. Penangsang	A. A. Putri Damayanti	Anik Puji Rahayu	Robertus Willy Gunawan
Title	<i>Pengendalian Persediaan Spare Part dengan Pendekatan Periodic Review System (Studi Kasus PT. GMF Aero Asia, Unit Engine Maintenance)</i>	<i>Pengendalian Persediaan Spare Part Base Transceiver Station (BTS) dengan Pendekatan Base Stock (R, s, S) System</i>	<i>Pengendalian Persediaan Consumable Product dengan Menggunakan Simulasi Monte Carlo</i>	Raw Material Inventory Control System Improvement for Make-to-Order Company in Karya Makmur Baru, Ltd.
Object	Spare Part	Spare Part	Consumable Product	Raw Material
Methods	Periodic Review System, <i>Simulasi Monte Carlo</i>	Base Stock (R, s, S) system	ABC Analysis, Periodic Review System, Continuous Review System, Monte Carlo Simulation	ABC Analysis, Periodic Review System, Continuous Review System, Monte Carlo Simulation
Output	Strategy for spare part unavailability	Recommendation for BTS inventory management	Consumable product critical commodity, inventory control system for consumable products, comparison between continuous and periodic review system	Inventory control system for each raw material category, comparison between continuous and periodic review system, total inventory cost, service level

Source: (Penangsang, 2009), (Damayanti, 2010), (Rahayu, 2014)

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CHAPTER III

RESEARCH METHODOLOGY

This chapter describes all phases conducted in this research so that the research could be done systematically. Generally, the research methodology contains literature study, data collection, data processing, scenario generation and experiment, data analysis and interpretation, and, lastly, conclusion and recommendation.

The flowchart of this research methodology is given as follows.

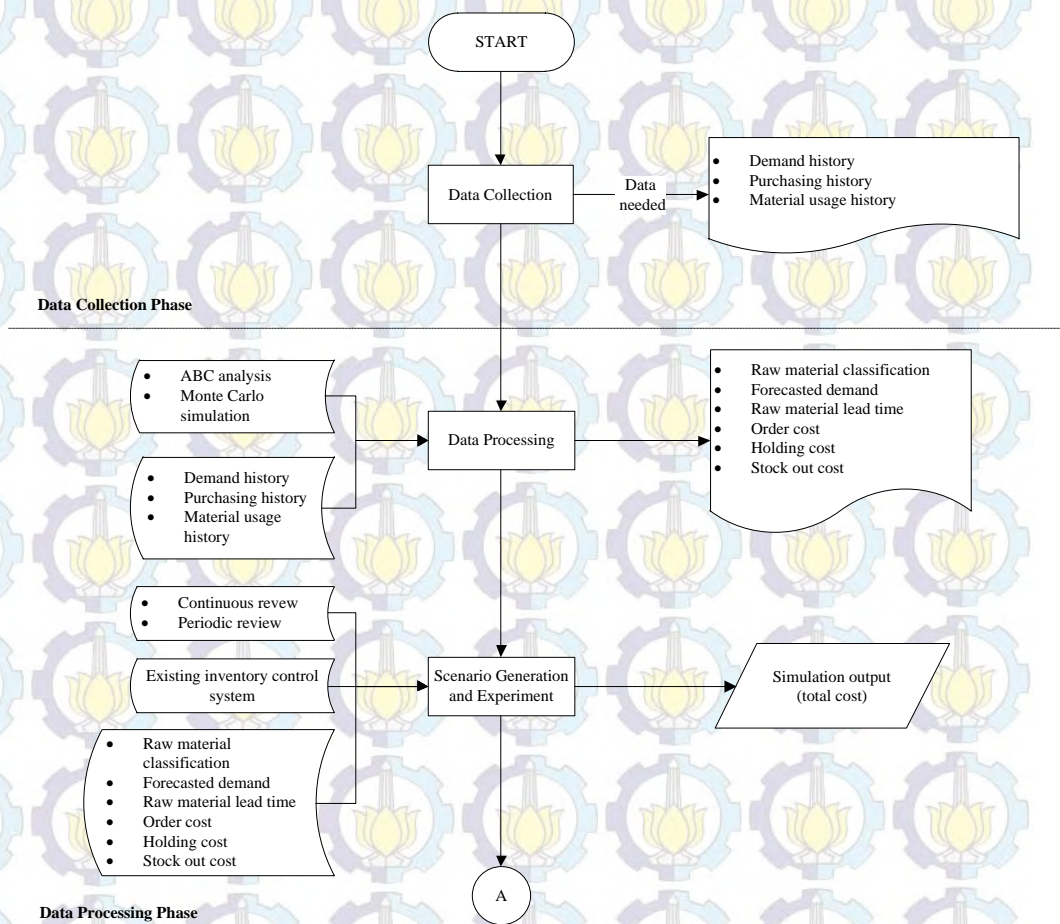


Figure 3.1 Flowchart of Research Methodology

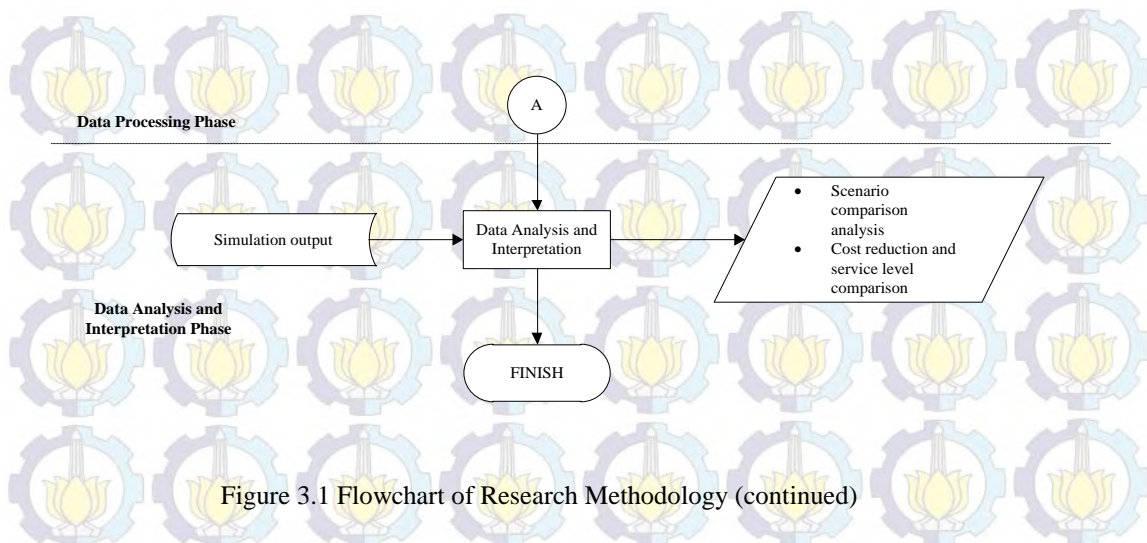


Figure 3.1 Flowchart of Research Methodology (continued)

3.1 Data Collection Phase

Data collection phase is carried out to obtain real data to capture existing system. All data are obtained from the company through direct observation and interview. In this research, historical data of demand, purchasing, as well as material usage are collected.

3.2 Data Processing Phase

Data processing phase deals with two major stages, which are data processing as well as scenario generation and experiment.

3.2.1 Data Processing

At this stage, obtained data are processed to get some specified parameters, which could not be directly obtained from direct observation and/or interview, to picture the existing condition which then will be used to build scenarios and experiments. At the first place, raw materials in the company are categorized into three different categories following ABC classification rule. After it has been classified, one sample that has high coefficient of variance (CV) and one that has low CV are taken from each category to be calculated in the inventory control system scenario.

Several data such as cost of order, holding, and stock out will also be calculated. Each cost is calculated with different approach. Order cost is determined from the administration overhead cost, and corresponding labor cost.

To determine holding cost, a certain rate will be specified to allow company to keep the materials. While stock out cost will be the average order value times the profit rate which is stated by the company.

Other data to process at this stage are forecast demand and lead time for every raw material, deemed from suppliers to the company. Forecast demand is able to be obtained from the historical data of demand. The forecasting is based on the Monte Carlo simulation since the demand does not follow any trend. As for the lead time, since it is stochastic, also, it will be processed based on the Monte Carlo simulation for the following year inventory control system scenarios.

3.2.2 Scenario Generation and Experiment

Subsequent to data processing, different inventory control system scenarios are then developed. Other than the existing inventory control system, there are other two different inventory control systems, which will be evaluated i.e. continuous review (s, Q system) inventory control and periodic review (R, s, S system) inventory control. These inventory control system scenarios will have the output of total inventory cost occurred in the time period of one year. Table 3.1 states inventory control system scenarios design for specified raw material samples.

Table 3. 1 Design of Scenarios

Scenario	Description	Type	Object
Existing	Current Applied Inventory Control system	Exact Optimization	Chosen Samples from Classification
1	Continuous Review (s, Q System)	Heuristic Method	
2	Periodic Review (R, s, S System)	Heuristic Method	

In the existing condition, *Karya Makmur Baru* Ltd. orders high usage raw material biweekly, normal usage raw material monthly, low usage raw material every three months, and/or whenever on hand inventory cannot accommodate the demand issued by customers. However, it is not yet optimum due to the absenteeism of any scientific calculation to determine the order size; company orders approximately five times of average demand. Scenarios help company to evaluate the existing inventory control system as well as to determine which

inventory control system cost the least for each raw material category.

3.3 Data Analysis and Interpretation Phase

This phase mainly compare four outputs that came from the simulation, which are existing inventory control system, continuous review (s, Q) inventory control system, and periodic review (R, s, S) inventory control system for several raw material samples. The comparison focuses on the total inventory cost occurred for each raw material in each category. At the end of this phase, the most efficient inventory control system for each raw material category is proposed and new service level as well as inventory cost reduction by implementing recommended inventory control system is deliberated.

CHAPTER IV

DATA COLLECTION AND PROCESSING

This chapter includes all processes in order to prepare data to conduct the experiment. Those processes are data collection, data processing, as well as scenario generation and experiment.

4.1 Data Collection

As previously mentioned, several data are collected to describe the existing performance of company's inventory control system and to obtain several input parameters in order to generate the scenarios. Several data to collect are demand history, purchasing history, and material usage history.

4.1.1 Demand History

Demand history will be able to project the demand in the following year. Therefore, historical data of demand are collected. The demand is recorded by the company staff once the order from customers occurs, with daily time basis.

4.1.2 Purchasing History

From the purchasing history, some information describing the existing system can be obtained. The first information is none other than each raw material unit price. Unit price will be useful to determine holding cost once this research has come to scenario generation. Besides, existing inventory control system, related to order size and review period, can also be understood.

4.1.3 Material Usage History

Since there is no lead time record in the previous year, indeed it has to be interfered. Lead time for each shipment from suppliers can be traced from the gap between ordering date (from the purchasing history) and inbound date (from the material usage history).

4.2 Data Processing

After all necessary data has been collected; the data are then processed to picture the existing condition which then will be used to build scenarios and experiments. From the data explained in the previous subchapter, raw material classification, inventory cost elements, verification and validation, as well as forecasted demand and lead time can be determined.

4.2.1 Raw Material Classification

Raw materials in the company are categorized into three different categories following ABC classification rule. This classification has a mean to help choosing the sample to be tested in further step. After it has been classified into three classes, one sample that has high coefficient of variance (CV) and one that has low CV are taken from each category to be calculated in the inventory control system scenario. The coefficient of variance for each material (CV) is given as follows.

$$CV = \frac{\sigma}{\mu} \quad (4.1)$$

Where,

σ = daily standard deviation

μ = average daily usage

Table 4. 1 Raw Materials Classification

Rank	Raw Material Name	Percentage	Cumulative Percentage	Class	Categories	CV
1	DC 400 Gr 79 x 109	28.44%	28.44%	A	high usage	2.15
2	DC 350 Gr 79 x 109	8.88%	37.32%	A	high usage	3.15
3	DC 350 Gr 89 x 120	8.35%	45.67%	A	high usage	3.1
4	AC 260 Gr 79 x 109	8.34%	54.01%	A	high usage	4.86
5	DC 400 Gr 89 x 120	5.43%	59.44%	A	high usage	4.11
6	DC 250 Gr 79 x 109	4.50%	63.94%	A	high usage	4.45
7	DC 310 Gr 89 x 120	4.38%	68.32%	A	high usage	5.96
8	DC 310 Gr 79 x 109	4.14%	72.46%	A	high usage	4.68
9	AC 310 Gr 79 x109	2.98%	75.44%	A	high usage	2.66
10	AC 260 Gr 65 x 100	2.86%	78.30%	A	high usage	11.61
11	Matt 150 Gr 79 x 109	1.80%	80.10%	B	normal usage	19.08

Table 4. 1 Raw Materials Classification (continued)

Rank	Raw Material Name	Percentage	Cumulative Percentage	Class	Categories	CV
12	AP 150 Gr 79 x 109	1.74%	81.84%	B	normal usage	11.23
13	AC 360 Gr 79 x109	1.63%	83.47%	B	normal usage	4.21
14	AC 230 Gr 65x 100	1.60%	85.07%	B	normal usage	7.72
15	DC 250 Gr 89 x 120	1.56%	86.63%	B	normal usage	7.67
16	HVS 70 Gr 65 x 100	1.47%	88.10%	B	normal usage	6.44
17	AP 100 Gr 60 x 86	1.31%	89.41%	B	normal usage	7.28
18	Ivory 360 Gr 79 x 109	1.01%	90.42%	B	normal usage	9.14
19	AP 150 Gr 65 x 100	0.79%	91.22%	C	low usage	6.92
20	AC 210 Gr 65 x 100	0.73%	91.95%	C	low usage	11.16
21	Ivory 360 Gr 70/100	0.73%	92.68%	C	low usage	12.87
22	DC 450 Gr 89 x 120	0.64%	93.32%	C	low usage	13.47
23	AP 120 Gr 65 x 100	0.62%	93.94%	C	low usage	9.24
24	Lenen 120 x 1600	0.60%	94.54%	C	low usage	18.59
25	NCR Top White	0.46%	95.01%	C	low usage	13.38
26	DC 500 Gr 79 x 109	0.41%	95.42%	C	low usage	13.47
27	AP 100 Gr 65 x 100	0.38%	95.80%	C	low usage	13.32
28	AC 230 Gr 79 x 109	0.37%	96.16%	C	low usage	7.31
29	Bontak Sticker 54 x 70	0.36%	96.52%	C	low usage	5.84
30	NCR Bottom Pink	0.33%	96.85%	C	low usage	19.08
31	Ivory 350 Gr 79x109	0.30%	97.15%	C	low usage	11.23
32	HVS Yellow 65 x 100	0.27%	97.42%	C	low usage	16.22
33	Dorslag Green 44 x 69	0.25%	97.67%	C	low usage	18.1
34	Ivory 400 Gr 78,8 x 109	0.19%	97.85%	C	low usage	19.08
35	Ivory 390 Gr 79 x 109	0.18%	98.03%	C	low usage	19.08
36	HVS 80 Gr 61 x 86	0.16%	98.20%	C	low usage	14.11
37	Dorslag White 69x44	0.16%	98.35%	C	low usage	10.44
38	NCR Middle Pink	0.15%	98.51%	C	low usage	13.63
39	DC 400 Gr 70 x 100	0.15%	98.65%	C	low usage	10.98
40	DC 450 Gr 79 x 109	0.14%	98.79%	C	low usage	11.04
41	NCR Bottom Yellow	0.13%	98.92%	C	low usage	12.43
42	HVS 80 Gr 65x100	0.13%	99.05%	C	low usage	15.95
43	AP 120 Gr 79 x 109	0.13%	99.18%	C	low usage	17.07
44	DC 400 Gr 82 x 112	0.09%	99.27%	C	low usage	15.12
45	HVS 70 Gr 79 x 109	0.09%	99.36%	C	low usage	9.93
46	HVS 70 Gr 61 x 86	0.08%	99.44%	C	low usage	15.85
47	Sticker HVS 54 x 70	0.07%	99.51%	C	low usage	11.97
48	Ivory 300 Gr 79 x 109	0.07%	99.58%	C	low usage	17.43
49	AP 85 Gr 65 x 100	0.07%	99.64%	C	low usage	19.08
50	HVS 100 Gr 65 x 100	0.06%	99.71%	C	low usage	17.45
51	AC 310 Gr 65 x 100	0.06%	99.77%	C	low usage	19.08
52	AC 400 Gr 79 x 109	0.06%	99.83%	C	low usage	16.02
53	NCR Bottom Green	0.04%	99.86%	C	low usage	19.08
54	YB KP No 40	0.03%	99.90%	C	low usage	19.08
55	AP 190 gr 79 x 109	0.03%	99.93%	C	low usage	19.08
56	Dorslag White 65/100	0.02%	99.94%	C	low usage	13.59
57	Concorde T 79 x 109	0.01%	99.96%	C	low usage	13.47
58	Dorslag Red 69 x 44	0.01%	99.97%	C	low usage	12.07
59	NCR Middle Green	0.01%	99.97%	C	low usage	19.08
60	Dorslag Yellow 69 x 44	0.01%	99.98%	C	low usage	14.2

Table 4. 1 Raw Materials Classification (continued)

Rank	Raw Material Name	Percentage	Cumulative Percentage	Class	Categories	CV
61	Samson 90 x 120	0.01%	99.99%	C	low usage	13.48
62	YPKP 30	0.00%	99.99%	C	low usage	19.08
63	HVS 60 Gr 65 x 100	0.00%	99.99%	C	low usage	19.08
64	BC White 65 x 100	0.00%	100.00%	C	low usage	19.08
65	BC 150 Gr 65x100	0.00%	100.00%	C	low usage	19.08
66	AP 100 Gr 79 x 109	0.00%	100.00%	C	low usage	19.08
67	NCR Bottom Blue	0.00%	100.00%	C	low usage	19.08
68	Symbol Matt 300 gr	0.00%	100.00%	C	low usage	19.08
69	Ivory 260 Gr 79 x 109	0.00%	100.00%	C	dead	-
70	Ivory 230 Gr 79 x 109	0.00%	100.00%	C	dead	-
71	AC 360 Gr 65 x 100	0.00%	100.00%	C	dead	-
72	AC 210 Gr 79 x 109	0.00%	100.00%	C	dead	-
73	Matt 120 Gr 79 x 109	0.00%	100.00%	C	dead	-
74	AP 85 Gr 79 x109	0.00%	100.00%	C	dead	-
75	HVS 70 Gr 70 x 100	0.00%	100.00%	C	dead	-
76	Sticker Vinyl 53 x 86	0.00%	100.00%	C	dead	-
77	BC Blue 61 x 86	0.00%	100.00%	C	dead	-
78	KarKun No 50	0.00%	100.00%	C	dead	-
79	HVS 80 Gr 79x109	0.00%	100.00%	C	dead	-
80	DC 500 Gr 89.5x120	0.00%	100.00%	C	dead	-
81	BC Yellow 61 x 86	0.00%	100.00%	C	dead	-
82	BC 260 Gr 79 x 109	0.00%	100.00%	C	dead	-
83	Dorslag Blue 69 x 44	0.00%	100.00%	C	dead	-
84	HVS Red 65 x 100	0.00%	100.00%	C	dead	-
85	HVS 100 GR 79 x 109	0.00%	100.00%	C	dead	-

From Table 4.1, which shows the recapitulation of raw materials classification in the company, several samples are taken to be tested in the scenarios. For C class, samples are not taken from the dead category since dead items are no longer used by the company. Chosen samples are AC 260 Gr 79 x 109, DC 400 Gr 79 x 109, DC 250 Gr 89 x 120, AC 360 Gr 79 x109, AC 230 Gr 79 x 109, and Bontak Sticker 54 x 70. These samples will be used for further calculation and comparison in different scenarios.

4.2.2 Cost Calculation

After choosing the samples among raw materials in the company, other important data are the inventory cost elements, including order cost, holding cost, and stock out cost. These cost values are used to be one of the parameters in the scenarios. Detail for each cost component is described as follows.

4.2.2.1 Order Cost

Order cost refers to payment that the company has to pay once an order is placed. Order cost is calculated from total usage of electricity, telephone, equipment and utilities, as well as the wage of labors dealing with procuring raw materials from suppliers, divided by the total number of order placed.

In order to avoid overestimating the value of order cost, not all electricity cost is considered into the calculation; yet, only electricity that is used for administrative activities are deliberated. While for the manpower cost, there is an employee who is fully in charge in purchasing and procurement activities, while the other one helps once needed. Thus, labor cost has the value of one and a half of the labor wage.

By taking all those cost elements into account, regardless of the order size, order cost for the company is Rp 131,774.28 per replenishment. The detail of the cost components and order cost calculation are given in Appendix A.

4.2.2.2 Holding Cost

Holding cost ensues to keep the raw materials in the warehouse for a certain period of time. Using the rate of 12.3% from the unit price, the mathematical expression of daily holding cost (dh) per unit is as follows:

$$dh = \frac{12.3\% \cdot \text{unit price}}{365} \quad (4.2)$$

Using Equation 4.2, holding cost for each sample are calculated and recapitulated in Table 4.2.

Table 4. 2 Daily Holding Cost per Unit for Each Sample

No	Raw Material Name	Unit	Daily Holding Cost per Unit
1	AC 260 Gr 79 x 109	Ream	Rp 776.07
2	DC 400 Gr 79 x 109	Ream	Rp 411.97
3	DC 250 Gr 89 x 120	Ream	Rp 344.96
4	AC 360 Gr 79 x109	Ream	Rp 704.98
5	AC 230 Gr 79 x 109	Ream	Rp 473.80
6	Bontak Sticker 54 x 70	Ream	Rp 340.36

4.2.2.3 Stock out Cost

Stock out cost occurs when customers cannot get their desired and they decided not to wait until when it is available. Stock out cost is actually not a cost that has to be burdened to the company; this cost is an opportunity cost, which means that the company could have obtained a certain value of profit if only stock out is not occurred.

For the company, stock out cost is calculated from the average order value, multiplied by the company profit rate. According to labor in financial department in the company, profit rate of the company is 20% while the average order value is Rp 7,781,508.00. Hence, stock out cost of the company is Rp 1,556,301.60 per order lost, regardless of the number ordered by customers.

4.2.3 Generate Demand

From the historical data, daily demand for the following year is generated. Using Monte Carlo simulation, generate data is only done for six different raw materials that have been chosen as the sample for the company, which are AC 260 Gr 79 x 109, DC 400 Gr 79 x 109, DC 250 Gr 89 x 120, AC 360 Gr 79 x 109, AC 230 Gr 79 x 109, and Bontak Sticker 54 x 70. Several steps to perform Monte Carlo simulation has been stated in sub chapter 2.3, in which started with defining probability distribution of the main variable. Figure 4.1 and 4.2 shows histogram and time series plot of AC 260 Gr 79 x 109, respectively.

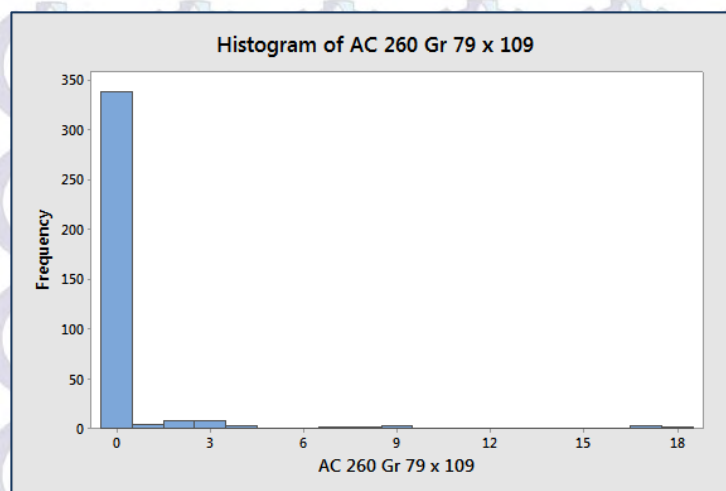


Figure 4. 1 Histogram of AC 260 Gr 79 x 109 Demand

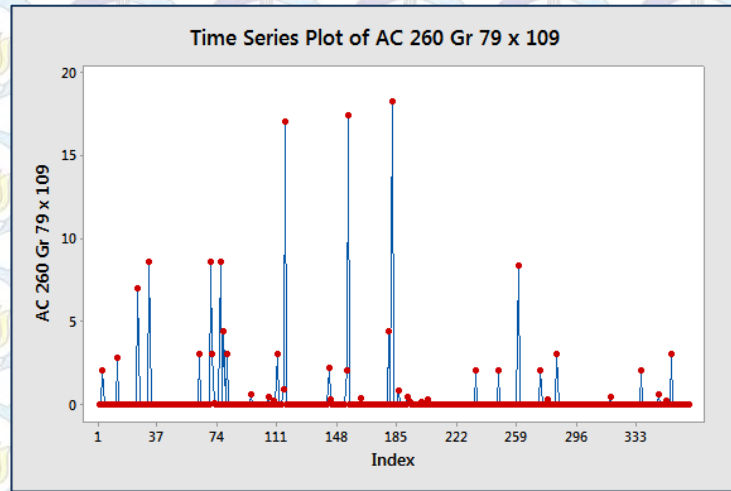


Figure 4. 2 Time Series Plot of AC 260 Gr 79 x 109 Demand

Since raw material demand for this company is a continuous value, demand data will be grouped in a certain range before it is recapitulated in the probability distribution. Table 4.3 displays the probability distribution of AC 260 Gr 79 x 109.

Table 4. 3 Probability Distribution of AC 260 Gr 79 x 109

Interval	Frequency	Probability	Lower Limit	Upper Limit
0	325	0.8904	0	0.8904
$0 < x \leq 2$	22	0.0603	0.8905	0.9508
$2 < x \leq 4$	8	0.0219	0.9509	0.9728
$4 < x \leq 6$	2	0.0055	0.9729	0.9784
$6 < x \leq 8$	1	0.0027	0.9785	0.9812
$8 < x \leq 10$	4	0.0110	0.9813	0.9923
$10 < x \leq 12$	0	0.0000	0.9924	0.9924
$12 < x \leq 14$	0	0.0000	0.9925	0.9925
$14 < x \leq 16$	0	0.0000	0.9926	0.9926
$16 < x \leq 18$	2	0.0055	0.9927	0.9982
$18 < x \leq 20$	1	0.0027	0.9983	1

Using the probability distribution table, random value is generated to obtain daily demand one year ahead. Random value is generated twice, one for determining in which interval the value belongs, while the other one is to calculate the exact value of the demand in that interval. Table 4.4 exhibits demand computation result sample of AC 260 Gr 79 x 109.

Table 4. 4 Demand Result Sample of AC 260 Gr 79 x 109

Period	Random Number	Demand
1	0.37908644	0
2	0.676692873	0
3	0.584171529	0
4	0.299375712	0
5	0.461128874	0
6	0.038542578	0
7	0.869049877	0
8	0.381029099	0
9	0.991766987	9.84
10	0.808987126	0
...
...
...
356	0.651157555	0
357	0.128424978	0
358	0.774620647	0
359	0.054967462	0
360	0.923840959	0.14
361	0.377925919	0
362	0.037444599	0
363	0.573657059	0
364	0.328531427	0
365	0.605064402	0

With the same method, demand is generated for all raw material samples.

Figure 4.3 and 4.4 shows histogram and time series plot, while Table 4.5 and 4.6 arrays probability distribution and generate demand result sample of DC 400 Gr 79 x 109, respectively.

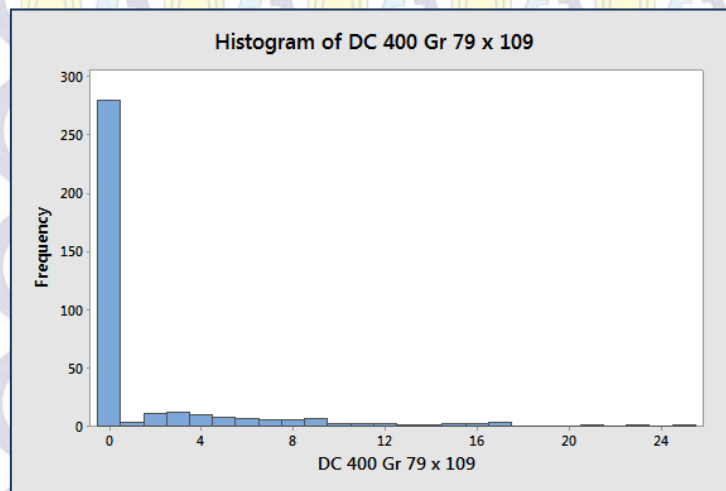


Figure 4. 3 Histogram of DC 400 Gr 79 x 109 Demand

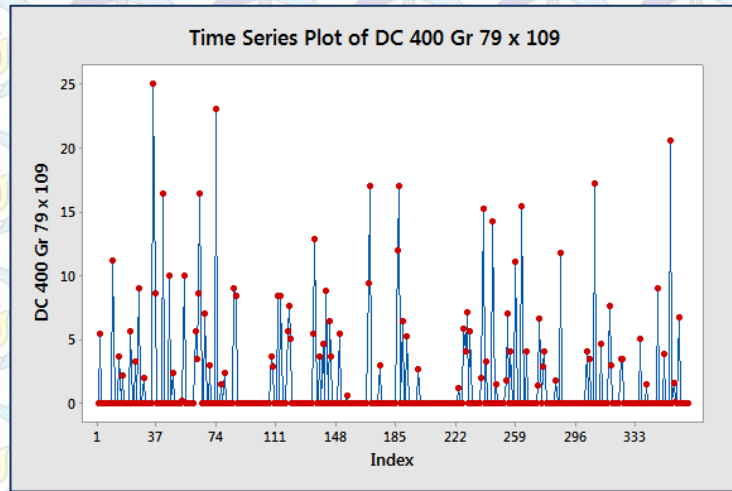


Figure 4. 4 Time Series Plot of DC 400 Gr 79 x 109 Demand

Table 4. 5 Probability Distribution of DC 400 Gr 79 x 109

Interval	Frequency	Probability	Lower Limit	Upper Limit
0	277	0.75890	0	0.7589
$0 < x \leq 3$	22	0.06027	0.7590	0.8193
$3 < x \leq 6$	29	0.07945	0.8194	0.8988
$6 < x \leq 9$	18	0.04932	0.8989	0.9482
$9 < x \leq 12$	7	0.01918	0.9483	0.9675
$12 < x \leq 15$	2	0.00548	0.9676	0.9731
$15 < x \leq 18$	7	0.01918	0.9732	0.9924
$18 < x \leq 21$	1	0.00274	0.9925	0.9952
$21 < x \leq 24$	1	0.00274	0.9953	0.9981
$24 < x \leq 27$	1	0.00274	0.9982	1

Table 4. 6 Demand Result Sample of DC 400 Gr 79 x 109

Period	Random Number	Demand
1	0.296081286	0
2	0.519320754	0
3	0.48255717	0
4	0.689665916	0
5	0.902949905	6.84
6	0.706997504	0
7	0.69488096	0
8	0.334312828	0
9	0.294415342	0
10	0.313111194	0
...
...
...
356	0.833570796	4.94
357	0.101729227	0
358	0.102758172	0
359	0.749732843	0

Table 4. 6 Demand Result Sample of DC 400 Gr 79 x 109 (continued)

Period	Random Number	Demand
360	0.345417244	0
361	0.707366921	0
362	0.452267742	0
363	0.661913211	0
364	0.383115005	0
365	0.814736753	0.13

Figure 4.5 and 4.6 shows histogram and time series plot, while Table 4.7 and 4.8 arrays probability distribution and generate demand result sample of DC 250 Gr 89 x 120, respectively.

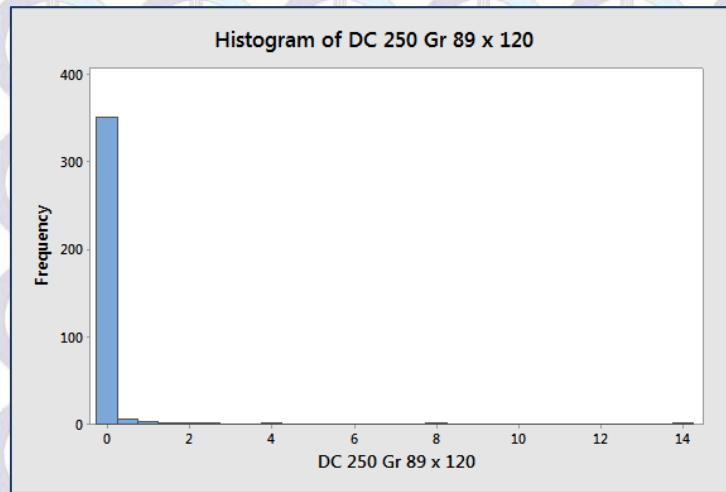


Figure 4. 5 Histogram of DC 250 Gr 89 x 120 Demand

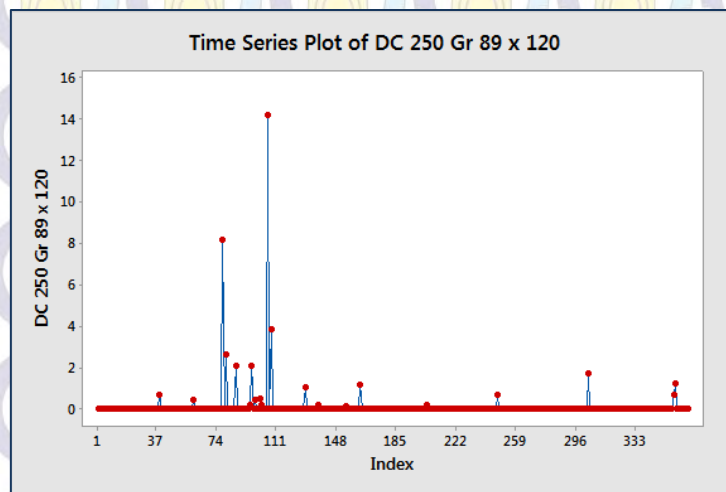


Figure 4. 6 Time Series Plot of DC 250 Gr 89 x 120 Demand

Table 4. 7 Probability Distribution of DC 250 Gr 89 x 120

Interval	Frequency	Probability	Lower Limit	Upper Limit
0	344	0.94247	0	0.9425
$0 < x \leq 1.5$	14	0.03836	0.9426	0.9809
$1.5 < x \leq 3$	4	0.01096	0.9810	0.9920
$3 < x \leq 4.5$	1	0.00274	0.9921	0.9948
$4.5 < x \leq 6$	0	0.00000	0.9949	0.9949
$6 < x \leq 7.5$	0	0.00000	0.9950	0.9950
$7.5 < x \leq 9$	1	0.00274	0.9951	0.9979
$9 < x \leq 10.5$	0	0.00000	0.9980	0.9980
$10.5 < x \leq 12$	0	0.00000	0.9981	0.9981
$12 < x \leq 13.5$	0	0.00000	0.9982	0.9982
$13.5 < x \leq 15$	1	0.00274	0.9983	1

Table 4. 8 Demand Result Sample of DC 250 Gr 89 x 120

Period	Random Number	Demand
1	0.474113854	0
2	0.096948374	0
3	0.320922025	0
4	0.796363405	0
5	0.640276106	0
6	0.41973487	0
7	0.000538694	0
8	0.189843324	0
9	0.774791713	0
10	0.007478132	0
...
...
...
356	0.717547198	0
357	0.482964425	0
358	0.826786171	0
359	0.062032642	0
360	0.343028975	0
361	0.573103586	0
362	0.935223163	0
363	0.29519571	0
364	0.849863918	0
365	0.978432682	1.29

Figure 4.7 and 4.8 shows histogram and time series plot, while Table 4.9 and 4.10 arrays probability distribution and generate demand result sample of AC 360 Gr 79 x109, respectively.

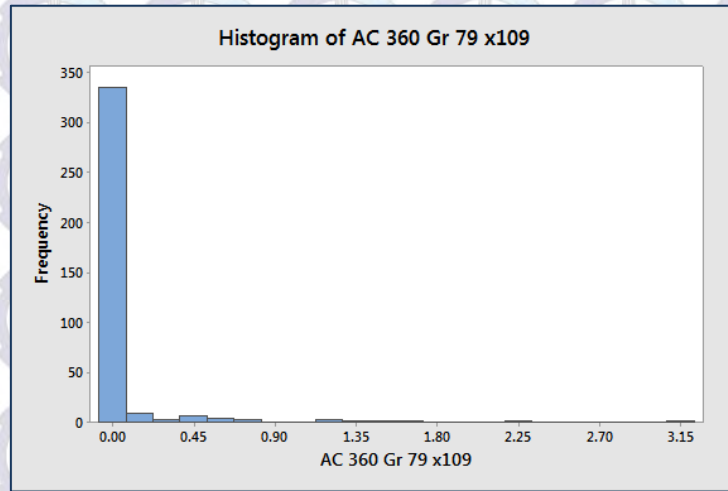


Figure 4. 7 Histogram of AC 360 Gr 79 x109 Demand

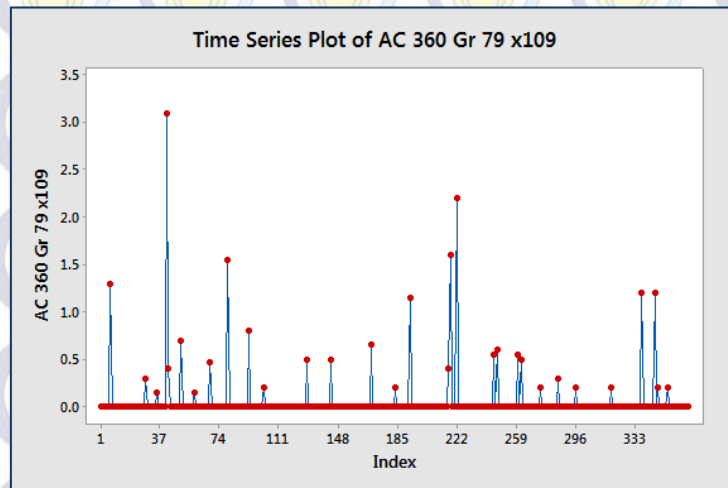


Figure 4. 8 Time Series Plot of AC 360 Gr 79 x109 Demand

Table 4. 9 Probability Distribution of AC 360 Gr 79 x109

Interval	Frequency	Probability	Lower Limit	Upper Limit
0	334	0.91507	0	0.9151
$0 < x \leq 0.3$	11	0.03014	0.9152	0.9453
$0.3 < x \leq 0.6$	9	0.02466	0.9454	0.9701
$0.6 < x \leq 0.9$	3	0.00822	0.9702	0.9784
$0.9 < x \leq 1.2$	3	0.00822	0.9785	0.9867
$1.2 < x \leq 1.5$	1	0.00274	0.9868	0.9895
$1.5 < x \leq 1.8$	2	0.00548	0.9896	0.9951
$1.8 < x \leq 2.1$	0	0.00000	0.9952	0.9952
$2.1 < x \leq 2.4$	1	0.00274	0.9953	0.9981
$2.4 < x \leq 2.7$	0	0.00000	0.9982	0.9982
$2.7 < x \leq 3$	0	0.00000	0.9983	0.9983
$3 < x \leq 3.3$	1	0.00274	0.9984	1

Table 4. 10 Demand Result Sample of AC 360 Gr 79 x109

Period	Random Number	Demand
1	0.689946391	0
2	0.245511673	0
3	0.302380269	0
4	0.573668765	0
5	0.776351083	0
6	0.312780455	0
7	0.611295422	0
8	0.483162464	0
9	0.610913522	0
10	0.544056403	0
...
...
...
356	0.944982513	0.28
357	0.575852971	0
358	0.243883633	0
359	0.485277461	0
360	0.798270783	0
361	0.231531714	0
362	0.80464142	0
363	0.953941516	0.55
364	0.799780103	0
365	0.864556631	0

Figure 4.9 and 4.10 shows histogram and time series plot, while Table 4.11 and 4.12 arrays probability distribution and generate demand result sample of AC 230 Gr 79 x 109, respectively.

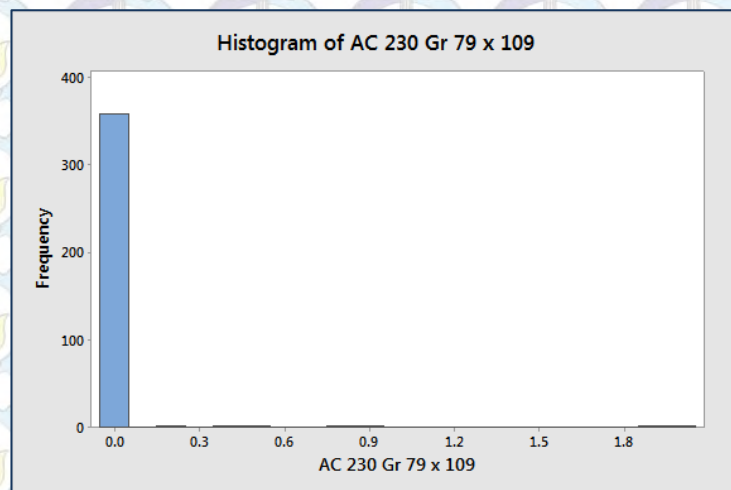


Figure 4. 9 Histogram of AC 230 Gr 79 x 109 Demand

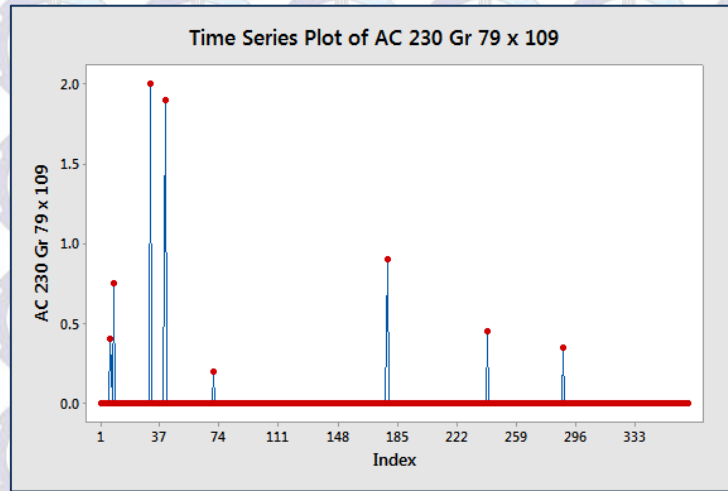


Figure 4. 10 Time Series Plot of AC 230 Gr 79 x 109 Demand

Table 4. 11 Probability Distribution of AC 230 Gr 79 x 109

Interval	Frequency	Probability	Lower Limit	Upper Limit
0	357	0.97808	0	0.9781
$0 < x \leq 0.2$	1	0.00274	0.9782	0.9809
$0.2 < x \leq 0.4$	2	0.00548	0.9810	0.9865
$0.4 < x \leq 0.6$	1	0.00274	0.9866	0.9893
$0.6 < x \leq 0.8$	1	0.00274	0.9894	0.9922
$0.8 < x \leq 1$	1	0.00274	0.9923	0.9950
$1 < x \leq 1.2$	0	0.00000	0.9951	0.9951
$1.2 < x \leq 1.4$	0	0.00000	0.9952	0.9952
$1.4 < x \leq 1.6$	0	0.00000	0.9953	0.9953
$1.6 < x \leq 1.8$	0	0.00000	0.9954	0.9954
$1.8 < x \leq 2$	2	0.00548	0.9955	1

Table 4. 12 Demand Result Sample of AC 230 Gr 79 x 109

Period	Random Number	Demand
1	0.975238593	0
2	0.729968767	0
3	0.835700867	0
4	0.388530238	0
5	0.047089226	0
6	0.513459502	0
7	0.567749705	0
8	0.859668221	0
9	0.256515403	0
10	0.662296825	0
...
...
...
356	0.11310583	0
357	0.009597973	0
358	0.352098861	0

Table 4. 12 Demand Result Sample of AC 230 Gr 79 x 109 (continued)

Period	Random Number	Demand
359	0.41829283	0
360	0.758938024	0
361	0.45603715	0
362	0.912635222	0
363	0.970496928	0
364	0.984629845	0.32
365	0.738946757	0

Figure 4.11 and 4.12 shows histogram and time series plot, while Table 4.13 and 4.14 arrays probability distribution and generate demand result sample of Bontak Sticker 54 x 70, respectively.

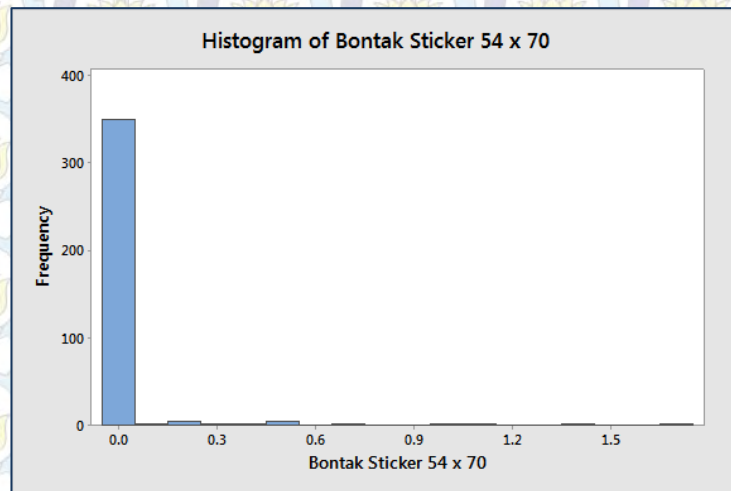


Figure 4. 11 Histogram of Bontak Sticker 54 x 70 Demand

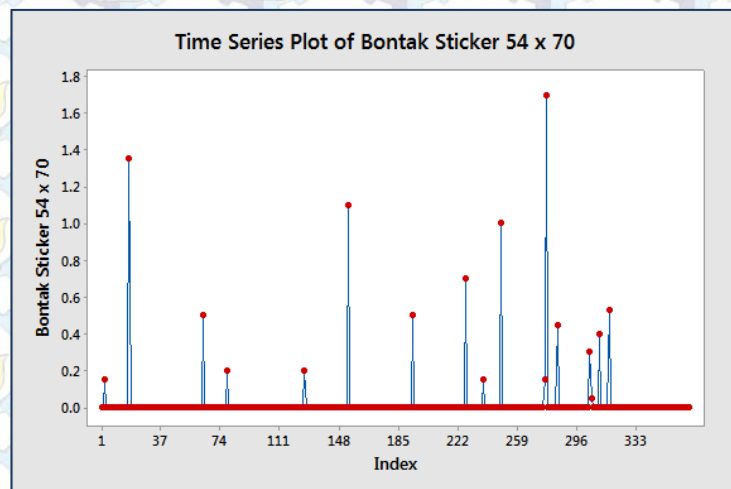


Figure 4. 12 Time Series Plot of Bontak Sticker 54 x 70 Demand

Table 4. 13 Probability Distribution of Bontak Sticker 54 x 70

Interval	Frequency	Probability	Lower Limit	Upper Limit
0	348	0.95342	0	0.9534
$0 < x \leq 0.2$	6	0.01644	0.9535	0.9700
$0.2 < x \leq 0.4$	2	0.00548	0.9701	0.9755
$0.4 < x \leq 0.6$	4	0.01096	0.9756	0.9866
$0.6 < x \leq 0.8$	1	0.00274	0.9867	0.9894
$0.8 < x \leq 1$	1	0.00274	0.9895	0.9923
$1 < x \leq 1.2$	1	0.00274	0.9924	0.9951
$1.2 < x \leq 1.4$	1	0.00274	0.9952	0.9980
$1.4 < x \leq 1.6$	0	0.00000	0.9981	0.9981
$1.6 < x \leq 1.8$	1	0.00274	0.9982	1

Table 4. 14 Demand Result Sample of Bontak Sticker 54 x 70

Period	Random Number	Demand
1	0.202363253	0
2	0.626068294	0
3	0.257133721	0
4	0.357709934	0
5	0.097508482	0
6	0.638294242	0
7	0.059096074	0
8	0.121748323	0
9	0.943923649	0
10	0.46693914	0
...
...
...
356	0.528586757	0
357	0.669813041	0
358	0.848540504	0
359	0.738201277	0
360	0.318422085	0
361	0.944767784	0
362	0.279772226	0
363	0.320917335	0
364	0.097772944	0
365	0.043020259	0

4.2.4 Verification and Validation

After obtaining demand for the following year, in 365 periods, the next step is prior to scenario generation is to verify and validate the data from Monte Carlo simulation. Verification and validation is important to trace whether or not the generated data can represent historical data. If the generated data cannot represent historical data, simulation has to be repeated.

As a means to verify the simulation, steps carried out in Monte Carlo simulation is checked whether or not it has followed the accurate steps stated in subchapter 2.3. Once it has followed the procedure, the simulation is verified.

While for the validation, Welch confidence interval for comparing two systems statistical test is conducted. This method compares two different systems; in this case is the historical demand and the demand generated through Monte Carlo simulation. The hypotheses are formulated below.

$$H_0 : \mu_1 - \mu_2 = 0$$

$$H_1 : \mu_1 - \mu_2 \neq 0$$

First step is calculating the degree of freedom (df) from both existing and simulation data. The mathematical expression to calculate df is as follows (Law and Kelton, 2000).

$$df = \frac{[s_1^2/n_1 + s_2^2/n_2]^2}{[s_1^2/n_1]^2/(n_1-1) + [s_2^2/n_2]^2/(n_2-1)} \quad (4.3)$$

The value of df will be an input for the calculation of half width (hw). With the significance level of 95% ($\alpha = 0.05$), hw can be calculated using Equation 4.4 (Law and Kelton, 2000).

$$hw = t_{df, \alpha/2} \cdot \sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}} \quad (4.4)$$

T value is obtained utilizing the help of Microsoft Excel software. The next step is to define confidence interval using predetermined significance level.

$$(\bar{X}_1 - \bar{X}_2) - hw \leq \mu_1 - \mu_2 \leq (\bar{X}_1 - \bar{X}_2) + hw$$

If zero lays between the confidence interval, it considers $\mu_1 - \mu_2$ equals to zero and, thus, H_0 is accepted, which indicates that the simulation is valid (there is no

significant difference between existing data and simulation result). Table 4.15 and 4.16 recapitulates the results of data validation.

Table 4. 15 Validation Input Parameters

Raw Material Type	Existing			Simulation		
	\bar{X}_1	S_1^2	n_1	\bar{X}_2	S_2^2	n_2
AC 260 Gr 79 x 109	0.3932877	3.670243	365	0.32172131	2.668996755	365
DC 400 Gr 79 x 109	1.6306027	14.975966	365	1.53172603	15.10037476	365
DC 250 Gr 89 x 120	0.116274	0.8301162	365	0.15953425	1.406477267	365
AC 360 Gr 79 x 109	0.0608767	0.0774505	365	0.04309589	0.051826449	365
AC 230 Gr 79 x 109	0.0190411	0.0256864	365	0.01893151	0.024438468	365
Bontak Sticker 54 x 70	0.0258356	0.0234327	365	0.03073973	0.025195733	365

Table 4. 16 Recapitulation of Simulation Data Validation Results

Raw Material Type	Validation					
	df	$t_{df, \alpha/2}$	hw	Confidence Interval		Decision
AC 260 Gr 79 x 109	710.28106	1.9633108	0.2587386	-0.1871722	$< \mu_1 - \mu_2 < 0.330305$	Valid
DC 400 Gr 79 x 109	727.98754	1.9632324	0.5635569	-0.4646802	$< \mu_1 - \mu_2 < 0.6624336$	Valid
DC 250 Gr 89 x 120	682.66606	1.9634485	0.1536974	-0.1969577	$< \mu_1 - \mu_2 < 0.1104372$	Valid
AC 360 Gr 79 x 109	700.48003	1.9633587	0.0369499	-0.0191691	$< \mu_1 - \mu_2 < 0.0547308$	Valid
AC 230 Gr 79 x 109	727.54906	1.9632324	0.0230066	-0.022897	$< \mu_1 - \mu_2 < 0.0231162$	Valid
Bontak Sticker 54 x 70	727.04435	1.9632324	0.0226605	-0.0275647	$< \mu_1 - \mu_2 < 0.0177564$	Valid

4.2.5 Generate Lead Time

Similarly to demand, raw material shipment lead time is also generated with Monte Carlo Simulation. Lead time is generated for the following shipment of raw material; each raw material indeed has distinctive lead time duration. In this subchapter, each raw material's probability distribution and generate lead time result sample will be elaborated. Table 4.17 shows AC 260 Gr 79 x 109 lead time probability distribution.

Table 4. 17 Lead Time Probability Distribution of AC 260 Gr 79 x 109

Lead Time	Frequency	Probability	Lower Limit	Upper Limit
1	3	0.15	0	0.15
2	7	0.35	0.15	0.5
3	6	0.3	0.5	0.8
4	2	0.1	0.8	0.9
5	0	0		
6	1	0.05	0.9	0.95
7	0	0		
8	1	0.05	0.95	1

Using the probability distribution table, random value is generated to obtain lead time in the following year. Table 4.18 displays the lead time result sample of AC 260 Gr 79 x 109.

Table 4. 18 Lead Time Result Sample of AC 260 Gr 79 x 109

No	Random Value	Lead Time
1	0.306615787	2
2	0.330952631	2
3	0.32225521	2
4	0.198511824	2
5	0.752848614	3
6	0.430702853	2
7	0.384935765	2
8	0.296555989	2
9	0.851875869	4
10	0.471030191	2
...
...

Table 4.19 shows DC 400 Gr 79 x 109 lead time probability distribution, while Table 4.20 displays the lead time result sample of DC 400 Gr 79 x 109.

Table 4. 19 Lead Time Probability Distribution of DC 400 Gr 79 x 109

Lead Time	Frequency	Probability	Lower Limit	Upper Limit
3	1	0.0370	0	0.0370
4	5	0.1852	0.0370	0.2222
5	7	0.2593	0.2222	0.4815
6	6	0.2222	0.4815	0.7037
7	4	0.1481	0.7037	0.8519
8	2	0.0741	0.8519	0.9259
9	0	0.0000		
10	2	0.0741	0.9259	1.0000

Table 4. 20 Lead Time Result Sample of DC 400 Gr 79 x 109

No	Random Value	Lead Time
1	0.168240426	4
2	0.955605751	10
3	0.95078021	10
4	0.907546587	8
5	0.053499573	4
6	0.248615504	5
7	0.605974725	6
8	0.118686256	4

Table 4. 20 Lead Time Result Sample of DC 400 Gr 79 x 109 (continued)

No	Random Value	Lead Time
9	0.464993571	5
10	0.012957888	3
...
...

Table 4.21 shows DC 250 Gr 89 x 120 lead time probability distribution, while Table 4.22 displays the lead time result sample of DC 250 Gr 89 x 120.

Table 4. 21 Lead Time Probability Distribution of DC 250 Gr 89 x 120

Lead Time	Frequency	Probability	Lower Limit	Upper Limit
1	1	0.0909	0	0.0909
2	1	0.0909	0.0909	0.1818
3	2	0.1818	0.1818	0.3636
4	1	0.0909	0.3636	0.4545
5	3	0.2727	0.4545	0.7273
6	2	0.1818	0.7273	0.9091
7	1	0.0909	0.9091	1.0000

Table 4. 22 Lead Time Result Sample of DC 250 Gr 89 x 120

No	Random Value	Lead Time
1	0.515072389	5
2	0.414892158	4
3	0.970881529	7
4	0.832957125	6
5	0.242384558	3
6	0.085927042	1
7	0.14306035	2
8	0.231879825	3
9	0.002639839	1
10	0.511947173	5
...
...

Table 4.23 shows AC 360 Gr 79 x 109 lead time probability distribution, while Table 4.24 displays the lead time result sample of AC 360 Gr 79 x 109.

Table 4. 23 Lead Time Probability Distribution of AC 360 Gr 79 x 109

Lead Time	Frequency	Probability	Lower Limit	Upper Limit
2	2	0.1667	0	0.1667
3	1	0.0833	0.1667	0.2500
4	6	0.5000	0.2500	0.7500

Table 4. 23 Lead Time Probability Distribution of AC 360 Gr 79 x 109 (continued)

Lead Time	Frequency	Probability	Lower Limit	Upper Limit
5	2	0.1667	0.7500	0.9167
6	0	0.0000		
7	0	0.0000		
8	1	0.0833	0.9167	1.0000

Table 4. 24 Lead Time Result Sample of AC 360 Gr 79 x 109

No	Random Value	Lead Time
1	0.572434301	4
2	0.151398919	2
3	0.735271173	4
4	0.464565512	4
5	0.022851378	2
6	0.730372281	4
7	0.070921864	2
8	0.427746454	4
9	0.117090198	2
10	0.361046801	4
...
...

Table 4.25 shows AC 230 Gr 79 x 109 lead time probability distribution, while Table 4.26 displays the lead time result sample of AC 230 Gr 79 x 109.

Table 4. 25 Lead Time Probability Distribution of AC 230 Gr 79 x 109

Lead Time	Frequency	Probability	Lower Limit	Upper Limit
2	2	0.5	0	0.5
3	1	0.25	0.5	0.75
4	1	0.25	0.75	1

Table 4. 26 Lead Time Result Sample of AC 230 Gr 79 x 109

No	Random Value	Lead Time
1	0.765764431	4
2	0.336482979	2
3	0.389913317	2
4	0.743263233	3
...
...

Table 4.27 shows Bontak Sticker 54 x 70 lead time probability distribution, while Table 4.28 displays the lead time result sample of Bontak Sticker 54 x 70.

Table 4. 27 Lead Time Probability Distribution of Bontak Sticker 54 x 70

Lead Time	Frequency	Probability	Lower Limit	Upper Limit
1	2	0.4	0	0.4
2	1	0.2	0.4	0.6
3	1	0.2	0.6	0.8
4	1	0.2	0.8	1

Table 4. 28 Lead Time Result Sample of Bontak Sticker 54 x 70

No	Random Value	Lead Time
1	0.625147001	3
2	0.9472991	3
3	0.993338326	4
4	0.147406531	1
...
...

4.3 Scenario Generation and Experiment

After obtaining all input parameters to simulate the inventory control system, the next step is to build scenarios. At the first place, number of replication is determined for each raw material to account for inherent random variation which may not represent the real condition. Apart from the existing condition, this study tries to find alternative ways to reduce total inventory cost while maintaining acceptable service level specified by the company. As stated earlier in this paper, there must be a trade-offs between inventory holding cost and stock out cost. It may be the case that reducing inventory on hand level leads to high occurrence of stock out. On the other hand, keeping high volume of inventory might reduce stock out occurrence yet burden the company with higher holding cost. Some of inventory control system alternatives explored in this paper are continuous review (s, Q system) and periodic (R, s, S system). Given that inventory problem in the company is moderately complicated, simple heuristic for each alternative will be carried out.

4.3.1 Number of Replication

In many cases, the number of replications needed is not discussed in any detail, and a number between 5 and 10 is usually taken. Nonetheless, by using the approximation that the number of replication grows quadratically as the half width decreases, the mathematical expression to determine replication number is as follows (Law and Kelton, 2000).

$$n' \cong n_0 \cdot \frac{h_0^2}{h^2} \quad (4.5)$$

$$h_0 = \left(t_{n-1, 1-\alpha/2} \right) \cdot \frac{s}{\sqrt{n_0}} \quad (4.6)$$

Where,

h_0 = half width of initial replications

α = error

s = standard deviation of replications

n_0 = initial number of replications

n' = minimum number of replications needed

h = desired half width

Initial replication is set to be 5 replications; when the required number of replications exceeds the initial replication, more replication should be added. The recapitulation of initial replication for each raw material is given in Table 4.29.

Table 4. 29 Initial Recapitulation Demand Output

Raw Material	Total Demand Output					Standard Deviation	Desired Half Width
	Replication 1	Replication 2	Replication 3	Replication 4	Replication 5		
AC 260 Gr 79 x 109	117.8	92.7	122.6	189.5	147.4	36.6075	40
DC 400 Gr 79 x 109	559.08	494.83	542.38	678.67	584.73	68.0808	77
DC 250 Gr 89 x 120	58.23	69.95	44.99	24.65	70.53	19.2847	20
AC 360 Gr 79 x 109	15.73	22.02	18.99	24.69	16.1	3.8510	10
AC 230 Gr 79 x 109	6.91	6.8	8.03	3.07	1.35	2.8656	3
Bontak Sticker 54 x 70	11.22	9.22	8.28	5.44	2.98	3.2424	4

For the desired half width, the company still permits to stock raw material which is categorized in A class up until 95 million Rupiah; raw material which is

categorized in B class up until 20 million Rupiah; raw material which is categorized in C class up until 5 million Rupiah.

Using Equation 4.5 and 4.6, required number of replication for each sample are calculated and recapitulated in Table 4.28.

Table 4. 30 Required Number of Replication for Each Sample

Raw Material	Required Number of Replication
AC 260 Gr 79 x 109	7
DC 400 Gr 79 x 109	7
DC 250 Gr 89 x 120	8
AC 360 Gr 79 x 109	2
AC 230 Gr 79 x 109	8
Bontak Sticker 54 x 70	6

These required numbers of replication will determine how many times the iteration will be performed for existing system, continuous review, and periodic review inventory control system for each sample.

4.3.2 Existing Inventory Control System

At this moment in time, company place an order biweekly for high usage raw materials, monthly for normal usage raw materials, once every three months for low usage raw materials, and/or whenever on hand inventory cannot accommodate the demand issued by customers. While for the order size, company orders approximately five times of demand on average. Appendix B and C deliberates data for existing inventory control system; Appendix B presents complete calculation replications for raw material AC 260 Gr 79 x 109, while Appendix C consists the lead time for the same raw material type. Other existing inventory control system calculation for the rest of raw materials types follow the logic presented in Appendix B and Appendix C.

4.3.2.1 AC 260 Gr 79 x 109

Raw material type AC 260 Gr 79 x 109 represents raw materials in A class with high CV. Table 4.31 shows the calculation exemplification of the first replication.

Table 4. 31 Replication 1 of AC 260 Gr 79 x 109 Existing Inventory Control System

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
3-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
4-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
5-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
6-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
7-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
8-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
9-Jan-15			9.84	74.91			Rp 57,386.30	Rp 57,386.30
10-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
11-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
12-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
13-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
14-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
15-Jan-15	10.9		0	74.91	Rp 131,774.28		Rp 57,386.30	Rp 189,160.58
16-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
17-Jan-15		10.9	0	85.81			Rp 65,736.47	Rp 65,736.47
18-Jan-15			0	85.81			Rp 65,736.47	Rp 65,736.47
19-Jan-15			0	85.81			Rp 65,736.47	Rp 65,736.47
20-Jan-15			0	85.81			Rp 65,736.47	Rp 65,736.47
...
...
18-Dec-15		10.9	0.34	217.84			Rp166,880.69	Rp 166,880.69
19-Dec-15			0	217.84			Rp166,880.69	Rp 166,880.69
20-Dec-15			0	217.84			Rp166,880.69	Rp 166,880.69
21-Dec-15			0	217.84			Rp166,880.69	Rp 166,880.69
22-Dec-15			0	217.84			Rp166,880.69	Rp 166,880.69
23-Dec-15			0	217.84			Rp166,880.69	Rp 166,880.69
24-Dec-15			0	217.84			Rp166,880.69	Rp 166,880.69
25-Dec-15			0	217.84			Rp166,880.69	Rp 166,880.69
26-Dec-15			0.14	217.7			Rp166,773.44	Rp 166,773.44
27-Dec-15			0	217.7			Rp166,773.44	Rp 166,773.44
28-Dec-15			0	217.7			Rp166,773.44	Rp 166,773.44
29-Dec-15			0	217.7			Rp166,773.44	Rp 166,773.44
30-Dec-15			0	217.7			Rp166,773.44	Rp 166,773.44
31-Dec-15			0	217.7			Rp166,773.44	Rp 166,773.44
							Rp	42,183,290.20

After doing all replications, total cost as well as the service level for each replication could be interfered. Table 4.32 recapitulates the output of existing inventory control system for AC 260 Gr 79 x 109.

Table 4. 32 Recapitulation of AC 260 Gr 79 x 109 Existing Inventory Control System

	Total Customer Order	Existing		
		Total Lost Order	Service Level	Total Cost
Replication 1	33	0	100.00%	Rp 42,183,290.20
Replication 2	39	0	100.00%	Rp 49,479,946.07
Replication 3	41	0	100.00%	Rp 43,378,106.59
Replication 4	48	0	100.00%	Rp 39,176,779.53
Replication 5	48	0	100.00%	Rp 37,075,418.88
Replication 6	48	0	100.00%	Rp 37,856,741.34
Replication 7	43	0	100.00%	Rp 40,573,294.50
				Rp 41,525,047.10

4.3.2.2 DC 400 Gr 79 x 109

Raw material type DC 400 Gr 79 x 109 represents raw materials in A class with low CV. Table 4.33 shows the calculation exemplification of the first replication.

Table 4. 33 Replication 1 of DC 400 Gr 79 x 109 Existing Inventory Control System

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	68.51			Rp 28,224.06	Rp 28,224.06
1-Jan-15			0	68.51			Rp 28,224.06	Rp 28,224.06
2-Jan-15			0	68.51			Rp 28,224.06	Rp 28,224.06
3-Jan-15			0	68.51			Rp 28,224.06	Rp 28,224.06
4-Jan-15			0	68.51			Rp 28,224.06	Rp 28,224.06
5-Jan-15			6.84	61.67			Rp 25,406.19	Rp 25,406.19
6-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
7-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
8-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
9-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
10-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
11-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
12-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
13-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
14-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
15-Jan-15	18.59		0	61.67	Rp 131,774.28		Rp 25,406.19	Rp 157,180.47
16-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
17-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
18-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
19-Jan-15		18.59	1.49	78.77			Rp 32,450.88	Rp 32,450.88
20-Jan-15			1.71	77.06			Rp 31,746.41	Rp 31,746.41
...
...
18-Dec-15			0	36.46			Rp 15,020.43	Rp 15,020.43
19-Dec-15			0	36.46			Rp 15,020.43	Rp 15,020.43
20-Dec-15			0	36.46			Rp 15,020.43	Rp 15,020.43
21-Dec-15		18.59	17.35	37.7			Rp 15,531.27	Rp 15,531.27
22-Dec-15			4.94	32.76			Rp 13,496.14	Rp 13,496.14
23-Dec-15			0	32.76			Rp 13,496.14	Rp 13,496.14
24-Dec-15			0	32.76			Rp 13,496.14	Rp 13,496.14
25-Dec-15			0	32.76			Rp 13,496.14	Rp 13,496.14
26-Dec-15			0	32.76			Rp 13,496.14	Rp 13,496.14
27-Dec-15			0	32.76			Rp 13,496.14	Rp 13,496.14
28-Dec-15			0	32.76			Rp 13,496.14	Rp 13,496.14
29-Dec-15			0	32.76			Rp 13,496.14	Rp 13,496.14
30-Dec-15			0	32.76			Rp 13,496.14	Rp 13,496.14
31-Dec-15			0.13	32.63			Rp 13,442.58	Rp 13,442.58
							Rp	16,019,583.89

After doing all replications, total cost as well as the service level for each replication could be interfered. Table 4.34 recapitulates the output of existing inventory control system for DC 400 Gr 79 x 109.

Table 4. 34 Recapitulation of DC 400 Gr 79 x 109 Existing Inventory Control System

	Total Customer Order	Existing		
		Total Lost Order	Service Level	Total Cost
Replication 1	75	3	96.00%	Rp 16,019,583.89
Replication 2	86	2	97.67%	Rp 13,588,590.15
Replication 3	86	2	97.67%	Rp 13,198,961.28

Table 4. 34 Recapitulation of DC 400 Gr 79 x 109 Existing Inventory Control System (continued)

	Total Customer Order	Existing		
		Total Lost Order	Service Level	Total Cost
Replication 4	100	6	94.00%	Rp 17,097,003.25
Replication 5	87	3	96.55%	Rp 13,034,346.28
Replication 6	84	1	98.81%	Rp 10,633,904.26
Replication 7	88	2	97.73%	Rp 13,301,236.95
				Rp 13,928,731.52

4.3.2.3 DC 250 Gr 89 x 120

Raw material type DC 250 Gr 89 x 120 represents raw materials in B class with high CV. Table 4.35 shows the calculation exemplification of the first replication.

Table 4. 35 Replication 1 of DC 250 Gr 89 x 120 Existing Inventory Control System

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	43.51			Rp 14,574.11	Rp 14,574.11
1-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
2-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
3-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
4-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
5-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
6-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
7-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
8-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
9-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
10-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
11-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
12-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
13-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
14-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
15-Jan-15	6.03		0	43.51	Rp 131,774.28		Rp 14,574.11	Rp 146,348.39
16-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
17-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
18-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
19-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
20-Jan-15		6.03	0	49.54			Rp 16,593.92	Rp 16,593.92
...
...
18-Dec-15			0	52.9			Rp 17,719.38	Rp 17,719.38
19-Dec-15		6.03	0	58.93			Rp 19,739.19	Rp 19,739.19
20-Dec-15			0	58.93			Rp 19,739.19	Rp 19,739.19
21-Dec-15			0	58.93			Rp 19,739.19	Rp 19,739.19
22-Dec-15			0	58.93			Rp 19,739.19	Rp 19,739.19
23-Dec-15			0	58.93			Rp 19,739.19	Rp 19,739.19
24-Dec-15			0	58.93			Rp 19,739.19	Rp 19,739.19
25-Dec-15			0	58.93			Rp 19,739.19	Rp 19,739.19
26-Dec-15			0	58.93			Rp 19,739.19	Rp 19,739.19
27-Dec-15			0	58.93			Rp 19,739.19	Rp 19,739.19
28-Dec-15			0	58.93			Rp 19,739.19	Rp 19,739.19
29-Dec-15			0	58.93			Rp 19,739.19	Rp 19,739.19
30-Dec-15			0	58.93			Rp 19,739.19	Rp 19,739.19
31-Dec-15			1.29	57.64			Rp 19,307.09	Rp 19,307.09
								Rp 7,566,359.99

After doing all replications, total cost as well as the service level for each replication could be interfered. Table 4.36 recapitulates the output of existing inventory control system for DC 250 Gr 89 x 120.

Table 4. 36 Recapitulation of DC 250 Gr 89 x 120 Existing Inventory Control System

	Total Customer Order	Existing		
		Total Lost Order	Service Level	Total Cost
Replication 1	15	0	100.00%	Rp 7,566,359.99
Replication 2	26	0	100.00%	Rp 6,879,326.88
Replication 3	21	0	100.00%	Rp 8,814,782.71
Replication 4	20	0	100.00%	Rp 10,252,725.79
Replication 5	22	0	100.00%	Rp 6,937,908.04
Replication 6	18	0	100.00%	Rp 9,935,810.09
Replication 7	16	0	100.00%	Rp 9,153,862.71
Replication 8	23	1	95.65%	Rp 5,886,299.18
				Rp 8,178,384.42

4.3.2.4 AC 360 Gr 79 x109

Raw material type AC 360 Gr 79 x 109 represents raw materials in B class with low CV. Table 4.37 shows the calculation exemplification of the first replication.

Table 4. 37 Replication 1 of AC 360 Gr 79 x 109 Existing Inventory Control System

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	15.68			Rp 11,054.09	Rp 11,054.09
1-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
2-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
3-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
4-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
5-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
6-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
7-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
8-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
9-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
10-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
11-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
12-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
13-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
14-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
15-Jan-15	3.3		0	15.68	Rp 131,774.28		Rp 11,054.09	Rp 142,828.37
16-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
17-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
18-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
19-Jan-15		3.3	0.17	18.81			Rp 13,260.67	Rp 13,260.67
20-Jan-15			0	18.81			Rp 13,260.67	Rp 13,260.67
...
...
18-Dec-15			1.48	37.08			Rp 26,140.66	Rp 26,140.66
19-Dec-15		3.3	0	40.38			Rp 28,467.09	Rp 28,467.09
20-Dec-15			0	40.38			Rp 28,467.09	Rp 28,467.09
21-Dec-15			0	40.38			Rp 28,467.09	Rp 28,467.09
22-Dec-15			0.28	40.1			Rp 28,269.70	Rp 28,269.70
23-Dec-15			0	40.1			Rp 28,269.70	Rp 28,269.70

Table 4. 37 Replication 1 of AC 360 Gr 79 x 109 Existing Inventory Control System (continued)

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
24-Dec-15			0	40.1			Rp 28,269.70	Rp 28,269.70
25-Dec-15			0	40.1			Rp 28,269.70	Rp 28,269.70
26-Dec-15			0	40.1			Rp 28,269.70	Rp 28,269.70
27-Dec-15			0	40.1			Rp 28,269.70	Rp 28,269.70
28-Dec-15			0	40.1			Rp 28,269.70	Rp 28,269.70
29-Dec-15			0.55	39.55			Rp 27,881.96	Rp 27,881.96
30-Dec-15			0	39.55			Rp 27,881.96	Rp 27,881.96
31-Dec-15			0	39.55			Rp 27,881.96	Rp 27,881.96
								Rp 9,295,993.25

After doing all replications, total cost as well as the service level for each replication could be interfered. Table 4.38 recapitulates the output of existing inventory control system for AC 360 Gr 79 x 109.

Table 4. 38 Recapitulation of AC 360 Gr 79 x 109 Existing Inventory Control System

	Total Customer Order	Existing		
		Total Lost Order	Service Level	Total Cost
Replication 1	22	0	100.00%	Rp 9,295,993.25
Replication 2	35	0	100.00%	Rp 8,342,275.15
				Rp 8,819,134.20

4.3.2.5 AC 230 Gr 79 x 109

Raw material type AC 230 Gr 79 x 109 represents raw materials in C class with high CV. Table 4.39 shows the calculation exemplification of the first replication.

Table 4. 39 Replication 1 of AC 230 Gr 79 x 109 Existing Inventory Control System

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	9			Rp 4,264.20	Rp 4,264.20
1-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
2-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
3-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
4-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
5-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
6-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
7-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
8-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
9-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
10-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
11-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
12-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
13-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
14-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
15-Jan-15	3.5		0	9	Rp 131,774.28		Rp 4,264.20	Rp 136,038.48
16-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
17-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
18-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
19-Jan-15		3.5	0	12.5			Rp 5,922.50	Rp 5,922.50
20-Jan-15			0	12.5			Rp 5,922.50	Rp 5,922.50
...

Table 4. 39 Replication 1 of AC 230 Gr 79 x 109 Existing Inventory Control System (continued)

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
...
18-Dec-15			0.59	16.41			Rp 7,775.06	Rp 7,775.06
19-Dec-15			0	16.41			Rp 7,775.06	Rp 7,775.06
20-Dec-15			0	16.41			Rp 7,775.06	Rp 7,775.06
21-Dec-15			0	16.41			Rp 7,775.06	Rp 7,775.06
22-Dec-15			0	16.41			Rp 7,775.06	Rp 7,775.06
23-Dec-15			0	16.41			Rp 7,775.06	Rp 7,775.06
24-Dec-15			0	16.41			Rp 7,775.06	Rp 7,775.06
25-Dec-15			0	16.41			Rp 7,775.06	Rp 7,775.06
26-Dec-15			0	16.41			Rp 7,775.06	Rp 7,775.06
27-Dec-15			0	16.41			Rp 7,775.06	Rp 7,775.06
28-Dec-15			0	16.41			Rp 7,775.06	Rp 7,775.06
29-Dec-15			0	16.41			Rp 7,775.06	Rp 7,775.06
30-Dec-15			0.32	16.09			Rp 7,623.44	Rp 7,623.44
31-Dec-15			0	16.09			Rp 7,623.44	Rp 7,623.44
								Rp 2,942,856.44

After doing all replications, total cost as well as the service level for each replication could be interfered. Table 4.40 recapitulates the output of existing inventory control system for AC 230 Gr 79 x 109.

Table 4. 40 Recapitulation of AC 230 Gr 79 x 109 Existing Inventory Control System

	Total Customer Order	Existing		
		Total Lost Order	Service Level	Total Cost
Replication 1	9	0	100.00%	Rp 2,942,856.44
Replication 2	7	0	100.00%	Rp 3,077,041.34
Replication 3	15	0	100.00%	Rp 2,837,857.62
Replication 4	4	0	100.00%	Rp 3,295,851.66
Replication 5	5	0	100.00%	Rp 3,410,203.29
Replication 6	11	0	100.00%	Rp 2,491,130.78
Replication 7	8	0	100.00%	Rp 2,634,502.66
Replication 8	5	0	100.00%	Rp 3,291,975.97
				Rp 2,997,677.47

4.3.2.6 Bontak Sticker 54 x 70

Raw material type Bontak Sticker 54 x 70 represents raw materials in C class with low CV. Table 4.41 shows the calculation exemplification of the first replication.

Table 4. 41 Replication 1 of Bontak Sticker 54 x 70 Existing Inventory Control System

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	2.57			Rp 874.73	Rp 874.73
1-Jan-15			0	2.57			Rp 874.73	Rp 874.73
2-Jan-15			0	2.57			Rp 874.73	Rp 874.73
3-Jan-15			0	2.57			Rp 874.73	Rp 874.73
4-Jan-15			0	2.57			Rp 874.73	Rp 874.73
5-Jan-15			0	2.57			Rp 874.73	Rp 874.73
6-Jan-15			0	2.57			Rp 874.73	Rp 874.73

Table 4. 41 Replication 1 of Bontak Sticker 54 x 70 Existing Inventory Control System (cont'd)

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
7-Jan-15			0	2.57			Rp 874.73	Rp 874.73
8-Jan-15			0	2.57			Rp 874.73	Rp 874.73
9-Jan-15			0	2.57			Rp 874.73	Rp 874.73
10-Jan-15			0	2.57			Rp 874.73	Rp 874.73
11-Jan-15			0	2.57			Rp 874.73	Rp 874.73
12-Jan-15			0	2.57			Rp 874.73	Rp 874.73
13-Jan-15			0	2.57			Rp 874.73	Rp 874.73
14-Jan-15			0	2.57			Rp 874.73	Rp 874.73
15-Jan-15	1		0	2.57	Rp 131,774.28		Rp 874.73	Rp 132,649.01
16-Jan-15			0	2.57			Rp 874.73	Rp 874.73
17-Jan-15			0	2.57			Rp 874.73	Rp 874.73
18-Jan-15		1	0	3.57			Rp 1,215.09	Rp 1,215.09
19-Jan-15			0	3.57			Rp 1,215.09	Rp 1,215.09
20-Jan-15			0.55	3.02			Rp 1,027.89	Rp 1,027.89
...
...
18-Dec-15			0	0.76			Rp 258.67	Rp 258.67
19-Dec-15			0	0.76			Rp 258.67	Rp 258.67
20-Dec-15			0	0.76			Rp 258.67	Rp 258.67
21-Dec-15			0	0.76			Rp 258.67	Rp 258.67
22-Dec-15			0	0.76			Rp 258.67	Rp 258.67
23-Dec-15			0	0.76			Rp 258.67	Rp 258.67
24-Dec-15			0	0.76			Rp 258.67	Rp 258.67
25-Dec-15			0	0.76			Rp 258.67	Rp 258.67
26-Dec-15			0	0.76			Rp 258.67	Rp 258.67
27-Dec-15			0	0.76			Rp 258.67	Rp 258.67
28-Dec-15			0	0.76			Rp 258.67	Rp 258.67
29-Dec-15			0	0.76			Rp 258.67	Rp 258.67
30-Dec-15			0	0.76			Rp 258.67	Rp 258.67
31-Dec-15			0	0.76			Rp 258.67	Rp 258.67
							Rp	5,740,382.02

After doing all replications, total cost as well as the service level for each replication could be interfered. Table 4.42 recapitulates the replication outputs of existing inventory control system for Bontak Sticker 54 x 70.

Table 4. 42 Recapitulation of AC 230 Gr 79 x 109 Existing Inventory Control System

	Total Customer Order	Existing		
		Total Lost Order	Service Level	Total Cost
Replication 1	24	3	87.50%	Rp 5,740,382.02
Replication 2	13	2	84.62%	Rp 4,088,833.57
Replication 3	19	1	94.74%	Rp 2,410,526.03
Replication 4	12	0	100.00%	Rp 941,005.51
Replication 5	14	0	100.00%	Rp 927,258.37
Replication 6	24	3	87.50%	Rp 5,829,685.68
				Rp 3,322,948.53

4.3.3 Continuous Review (s, Q System)

Continuous review (s, Q system) is the first alternative of inventory control system. Unlike the existing inventory control system, continuous review gives time flexibility to the company for ordering raw materials from suppliers.

Using the formula that has been stated in subchapter 2.5.1, parameters in continuous review for each sample are recapitulated in Table 4.43.

Table 4. 43 Parameters in Continuous Review for All Samples

Raw Material	SS	DL	ROP	Q*
AC 260 Gr 79 x 109	5.43	1.12	6.55	11.63
DC 400 Gr 79 x 109	16.09	9.54	25.63	32.30
DC 250 Gr 89 x 120	3.12	0.50	3.61	9.56
AC 360 Gr 79 x109	0.94	0.25	1.19	4.77
AC 230 Gr 79 x 109	0.44	0.05	0.49	3.25
Bontak Sticker 54 x 70	0.38	0.06	0.43	4.47

Appendix D and E deliberates data for continuous review inventory control system; Appendix D presents complete calculation replications for raw material AC 260 Gr 79 x 109, while Appendix E consists the lead time for the same raw material type. Other continuous review inventory control system calculations for the rest of raw materials types follow the logic presented in Appendix D and Appendix E.

4.3.3.1 AC 260 Gr 79 x 109

A continuous review calculation example of the first replication for AC 260 Gr 79 x 109 is presented in Table 4.44.

Table 4. 44 Replication 1 of AC 260 Gr 79 x 109 Continuous Review

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
3-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
4-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
5-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
6-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
7-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
8-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
9-Jan-15			9.84	74.91			Rp 57,386.30	Rp 57,386.30
10-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
11-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
12-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
13-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
14-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
15-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
16-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
17-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
18-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
19-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
20-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
...
...
18-Dec-15			0.34	13.66			Rp 10,464.52	Rp 10,464.52

Table 4. 44 Replication 1 of AC 260 Gr 79 x 109 Continuous Review (continued)

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
19-Dec-15			0	13.66			Rp 10,464.52	Rp 10,464.52
20-Dec-15			0	13.66			Rp 10,464.52	Rp 10,464.52
21-Dec-15			0	13.66			Rp 10,464.52	Rp 10,464.52
22-Dec-15			0	13.66			Rp 10,464.52	Rp 10,464.52
23-Dec-15			0	13.66			Rp 10,464.52	Rp 10,464.52
24-Dec-15			0	13.66			Rp 10,464.52	Rp 10,464.52
25-Dec-15			0	13.66			Rp 10,464.52	Rp 10,464.52
26-Dec-15			0.14	13.52			Rp 10,357.27	Rp 10,357.27
27-Dec-15			0	13.52			Rp 10,357.27	Rp 10,357.27
28-Dec-15			0	13.52			Rp 10,357.27	Rp 10,357.27
29-Dec-15			0	13.52			Rp 10,357.27	Rp 10,357.27
30-Dec-15			0	13.52			Rp 10,357.27	Rp 10,357.27
31-Dec-15			0	13.52			Rp 10,357.27	Rp 10,357.27
								Rp 8,528,989.38

After doing all replications, total cost as well as the service level for each replication could be interfered. Table 4.45 recapitulates the outputs of continuous review inventory control system for AC 260 Gr 79 x 109.

Table 4. 45 Recapitulation of AC 260 Gr 79 x 109 Continuous Review

	Total Customer Order	s, Q System		
		Total Lost Order	Service Level	Total Cost
Replication 1	33	0	100.00%	Rp 8,528,989.38
Replication 2	39	0	100.00%	Rp 12,334,659.10
Replication 3	41	1	97.56%	Rp 10,620,771.33
Replication 4	48	3	93.75%	Rp 14,194,533.42
Replication 5	48	0	100.00%	Rp 7,070,757.31
Replication 6	48	5	89.58%	Rp 17,473,774.67
Replication 7	43	2	95.35%	Rp 12,410,818.78
				Rp 11,804,900.57

4.3.3.2 DC 400 Gr 79 x 109

A continuous review calculation example of the first replication for DC 400 Gr 79 x 109 is presented in Table 4.46.

Table 4. 46 Replication 1 of DC 400 Gr 79 x 109 Continuous Review

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	68.51			Rp 28,224.06	Rp 28,224.06
1-Jan-15			0	68.51			Rp 28,224.06	Rp 28,224.06
2-Jan-15			0	68.51			Rp 28,224.06	Rp 28,224.06
3-Jan-15			0	68.51			Rp 28,224.06	Rp 28,224.06
4-Jan-15			0	68.51			Rp 28,224.06	Rp 28,224.06
5-Jan-15			6.84	61.67			Rp 25,406.19	Rp 25,406.19
6-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
7-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
8-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
9-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
10-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
11-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19

Table 4. 46 Replication 1 of DC 400 Gr 79 x 109 Continuous Review (continued)

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
12-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
13-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
14-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
15-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
16-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
17-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
18-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
19-Jan-15			1.49	60.18			Rp 24,792.35	Rp 24,792.35
20-Jan-15			1.71	58.47			Rp 24,087.89	Rp 24,087.89
...
...
18-Dec-15			0	34.41			Rp 14,175.89	Rp 14,175.89
19-Dec-15			0	34.41			Rp 14,175.89	Rp 14,175.89
20-Dec-15			0	34.41			Rp 14,175.89	Rp 14,175.89
21-Dec-15	32.3		17.35	17.06	Rp 131,774.28		Rp 7,028.21	Rp 138,802.49
22-Dec-15			4.94	12.12			Rp 4,993.08	Rp 4,993.08
23-Dec-15			0	12.12			Rp 4,993.08	Rp 4,993.08
24-Dec-15			0	12.12			Rp 4,993.08	Rp 4,993.08
25-Dec-15			0	12.12			Rp 4,993.08	Rp 4,993.08
26-Dec-15			0	12.12			Rp 4,993.08	Rp 4,993.08
27-Dec-15			0	12.12			Rp 4,993.08	Rp 4,993.08
28-Dec-15			0	12.12			Rp 4,993.08	Rp 4,993.08
29-Dec-15	32.3		0	44.42			Rp 18,299.71	Rp 18,299.71
30-Dec-15			0	44.42			Rp 18,299.71	Rp 18,299.71
31-Dec-15			0.13	44.29			Rp 18,246.15	Rp 18,246.15
							Rp	10,861,071.08

After doing all replications, total cost as well as the service level for each replication could be interfered. Table 4.47 recapitulates the output of continuous review inventory control system for DC 400 Gr 79 x 109.

Table 4. 47 Recapitulation of DC 400 Gr 79 x 109 Continuous Review

	Total Customer Order	s, Q System		
		Total Lost Order	Service Level	Total Cost
Replication 1	75	2	97.33%	Rp 10,861,071.08
Replication 2	86	2	97.67%	Rp 10,246,506.05
Replication 3	86	0	100.00%	Rp 7,263,665.71
Replication 4	100	1	99.00%	Rp 9,304,573.84
Replication 5	87	2	97.70%	Rp 10,337,659.08
Replication 6	84	1	98.81%	Rp 8,558,375.61
Replication 7	88	0	100.00%	Rp 6,991,435.93
				Rp 9,080,469.61

4.3.3.3 DC 250 Gr 89 x 120

A continuous review calculation example of the first replication for DC 250 Gr 89 x 120 is presented in Table 4.48.

Table 4. 48 Replication 1 of DC 250 Gr 89 x 120 Continuous Review

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	43.51			Rp 14,574.11	Rp 14,574.11
1-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
2-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
3-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
4-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
5-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
6-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
7-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
8-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
9-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
10-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
11-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
12-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
13-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
14-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
15-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
16-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
17-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
18-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
19-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
20-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
...
...
18-Dec-15			0	5.03			Rp 1,684.85	Rp 1,684.85
19-Dec-15			0	5.03			Rp 1,684.85	Rp 1,684.85
20-Dec-15			0	5.03			Rp 1,684.85	Rp 1,684.85
21-Dec-15			0	5.03			Rp 1,684.85	Rp 1,684.85
22-Dec-15			0	5.03			Rp 1,684.85	Rp 1,684.85
23-Dec-15			0	5.03			Rp 1,684.85	Rp 1,684.85
24-Dec-15			0	5.03			Rp 1,684.85	Rp 1,684.85
25-Dec-15			0	5.03			Rp 1,684.85	Rp 1,684.85
26-Dec-15			0	5.03			Rp 1,684.85	Rp 1,684.85
27-Dec-15			0	5.03			Rp 1,684.85	Rp 1,684.85
28-Dec-15			0	5.03			Rp 1,684.85	Rp 1,684.85
29-Dec-15			0	5.03			Rp 1,684.85	Rp 1,684.85
30-Dec-15			0	5.03			Rp 1,684.85	Rp 1,684.85
31-Dec-15			1.29	3.74			Rp 1,252.75	Rp 1,252.75
							Rp	4,155,026.13

After doing all replication, total cost as well as the service level for each replication could be interfered. Table 4.49 recapitulates the output of continuous review inventory control system for DC 250 Gr 89 x 120.

Table 4. 49 Recapitulation of DC 250 Gr 89 x 120 Continuous Review

	Total Customer Order	s, Q System		
		Total Lost Order	Service Level	Total Cost
Replication 1	15	1	93.33%	Rp 4,155,026.13
Replication 2	26	1	96.15%	Rp 4,297,299.08
Replication 3	21	1	95.24%	Rp 4,450,248.81
Replication 4	20	0	100.00%	Rp 4,308,647.42
Replication 5	22	3	86.36%	Rp 6,885,030.31
Replication 6	18	0	100.00%	Rp 3,997,791.14
Replication 7	16	0	100.00%	Rp 3,181,507.02
Replication 8	23	3	86.96%	Rp 6,500,183.40
				Rp 4,721,966.66

4.3.3.4 AC 360 Gr 79 x109

A continuous review calculation example of the first replication for AC 360 Gr 79 x 109 is presented in Table 4.50.

Table 4. 50 Replication 1 of AC 360 Gr 79 x 109 Continuous Review

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	15.68			Rp 11,054.09	Rp 11,054.09
1-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
2-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
3-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
4-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
5-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
6-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
7-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
8-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
9-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
10-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
11-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
12-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
13-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
14-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
15-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
16-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
17-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
18-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
19-Jan-15			0.17	15.51			Rp 10,934.24	Rp 10,934.24
20-Jan-15			0	15.51			Rp 10,934.24	Rp 10,934.24
...
...
18-Dec-15	4.77		1.48	0.78	Rp 131,774.28		Rp 549.88	Rp 132,324.16
19-Dec-15			0	0.78			Rp 549.88	Rp 549.88
20-Dec-15			0	0.78			Rp 549.88	Rp 549.88
21-Dec-15			0	0.78			Rp 549.88	Rp 549.88
22-Dec-15			0.28	0.5			Rp 352.49	Rp 352.49
23-Dec-15		4.77	0	5.27			Rp 3,715.24	Rp 3,715.24
24-Dec-15			0	5.27			Rp 3,715.24	Rp 3,715.24
25-Dec-15			0	5.27			Rp 3,715.24	Rp 3,715.24
26-Dec-15			0	5.27			Rp 3,715.24	Rp 3,715.24
27-Dec-15			0	5.27			Rp 3,715.24	Rp 3,715.24
28-Dec-15			0	5.27			Rp 3,715.24	Rp 3,715.24
29-Dec-15			0.55	4.72			Rp 3,327.51	Rp 3,327.51
30-Dec-15			0	4.72			Rp 3,327.51	Rp 3,327.51
31-Dec-15			0	4.72			Rp 3,327.51	Rp 3,327.51
								Rp 2,816,747.01

After doing all replications, total cost as well as the service level for each replication could be interfered. Table 4.51 recapitulates the output of continuous review inventory control system for AC 360 Gr 79 x 109.

Table 4. 51 Recapitulation of AC 360 Gr 79 x 109 Continuous Review

	Total Customer Order	s, Q System		
		Total Lost Order	Service Level	Total Cost
Replication 1	22	0	100.00%	Rp 2,816,747.01
Replication 2	35	0	100.00%	Rp 2,475,655.95
				Rp 2,646,201.48

4.3.3.5 AC 230 Gr 79 x 109

A continuous review calculation example of the first replication for AC 230 Gr 79 x 109 is presented in Table 4.52.

Table 4. 52 Replication 1 of AC 230 Gr 79 x 109 Continuous Review

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	9			Rp 4,264.20	Rp 4,264.20
1-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
2-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
3-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
4-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
5-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
6-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
7-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
8-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
9-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
10-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
11-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
12-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
13-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
14-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
15-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
16-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
17-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
18-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
19-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
20-Jan-15			0	9			Rp 4,264.20	Rp 4,264.20
...
18-Dec-15			0.59	2.41			Rp 1,141.86	Rp 1,141.86
19-Dec-15			0	2.41			Rp 1,141.86	Rp 1,141.86
20-Dec-15			0	2.41			Rp 1,141.86	Rp 1,141.86
21-Dec-15			0	2.41			Rp 1,141.86	Rp 1,141.86
22-Dec-15			0	2.41			Rp 1,141.86	Rp 1,141.86
23-Dec-15			0	2.41			Rp 1,141.86	Rp 1,141.86
24-Dec-15			0	2.41			Rp 1,141.86	Rp 1,141.86
25-Dec-15			0	2.41			Rp 1,141.86	Rp 1,141.86
26-Dec-15			0	2.41			Rp 1,141.86	Rp 1,141.86
27-Dec-15			0	2.41			Rp 1,141.86	Rp 1,141.86
28-Dec-15			0	2.41			Rp 1,141.86	Rp 1,141.86
29-Dec-15			0	2.41			Rp 1,141.86	Rp 1,141.86
30-Dec-15			0.32	2.09			Rp 990.24	Rp 990.24
31-Dec-15			0	2.09			Rp 990.24	Rp 990.24
							Rp	1,007,862.62

After doing all replications, total cost as well as the service level for each replication could be interfered. Table 4.53 recapitulates the output of continuous review inventory control system for AC 230 Gr 79 x 109.

Table 4. 53 Recapitulation of AC 230 Gr 79 x 109 Continuous Review

	Total Customer Order	s, Q System		
		Total Lost Order	Service Level	Total Cost
Replication 1	9	0	100.00%	Rp 1,007,862.62
Replication 2	7	0	100.00%	Rp 1,147,022.42
Replication 3	15	0	100.00%	Rp 901,205.50
Replication 4	4	0	100.00%	Rp 1,365,832.74
Replication 5	5	0	100.00%	Rp 1,476,867.77

Table 4. 53 Recapitulation of AC 230 Gr 79 x 109 Continuous Review (continued)

	Total Customer Order	s, Q System		
		Total Lost Order	Service Level	Total Cost
Replication 6	11	1	90.91%	Rp 2,380,662.51
Replication 7	8	0	100.00%	Rp 895,956.82
Replication 8	5	0	100.00%	Rp 1,356,982.15
				Rp 1,316,549.07

4.3.3.6 Bontak Sticker 54 x 70

A continuous review calculation example of the first replication for Bontak Sticker 54 x 70 is presented in Table 4.54.

Table 4. 54 Replication 1 of Bontak Sticker 54 x 70 Continuous Review

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	2.57			Rp 874.73	Rp 874.73
1-Jan-15			0	2.57			Rp 874.73	Rp 874.73
2-Jan-15			0	2.57			Rp 874.73	Rp 874.73
3-Jan-15			0	2.57			Rp 874.73	Rp 874.73
4-Jan-15			0	2.57			Rp 874.73	Rp 874.73
5-Jan-15			0	2.57			Rp 874.73	Rp 874.73
6-Jan-15			0	2.57			Rp 874.73	Rp 874.73
7-Jan-15			0	2.57			Rp 874.73	Rp 874.73
8-Jan-15			0	2.57			Rp 874.73	Rp 874.73
9-Jan-15			0	2.57			Rp 874.73	Rp 874.73
10-Jan-15			0	2.57			Rp 874.73	Rp 874.73
11-Jan-15			0	2.57			Rp 874.73	Rp 874.73
12-Jan-15			0	2.57			Rp 874.73	Rp 874.73
13-Jan-15			0	2.57			Rp 874.73	Rp 874.73
14-Jan-15			0	2.57			Rp 874.73	Rp 874.73
15-Jan-15			0	2.57			Rp 874.73	Rp 874.73
16-Jan-15			0	2.57			Rp 874.73	Rp 874.73
17-Jan-15			0	2.57			Rp 874.73	Rp 874.73
18-Jan-15			0	2.57			Rp 874.73	Rp 874.73
19-Jan-15			0	2.57			Rp 874.73	Rp 874.73
20-Jan-15			0.55	2.02			Rp 687.53	Rp 687.53
...
...
18-Dec-15			0	2.02			Rp 687.53	Rp 687.53
19-Dec-15			0	2.02			Rp 687.53	Rp 687.53
20-Dec-15			0	2.02			Rp 687.53	Rp 687.53
21-Dec-15			0	2.02			Rp 687.53	Rp 687.53
22-Dec-15			0	2.02			Rp 687.53	Rp 687.53
23-Dec-15			0	2.02			Rp 687.53	Rp 687.53
24-Dec-15			0	2.02			Rp 687.53	Rp 687.53
25-Dec-15			0	2.02			Rp 687.53	Rp 687.53
26-Dec-15			0	2.02			Rp 687.53	Rp 687.53
27-Dec-15			0	2.02			Rp 687.53	Rp 687.53
28-Dec-15			0	2.02			Rp 687.53	Rp 687.53
29-Dec-15			0	2.02			Rp 687.53	Rp 687.53
30-Dec-15			0	2.02			Rp 687.53	Rp 687.53
31-Dec-15			0	2.02			Rp 687.53	Rp 687.53
								Rp 3,649,256.62

After doing all replications, total cost as well as the service level for each replication could be interfered. Table 4.55 recapitulates the replication outputs of continuous review inventory control system for Bontak Sticker 54 x 70.

Table 4. 55 Recapitulation of Bontak Sticker 54 x 70 Continuous Review

	Total Customer Order	s, Q System		
		Total Lost Order	Service Level	Total Cost
Replication 1	24	2	91.67%	Rp 3,649,256.62
Replication 2	13	0	100.00%	Rp 526,200.97
Replication 3	19	0	100.00%	Rp 633,189.73
Replication 4	12	0	100.00%	Rp 393,303.50
Replication 5	14	0	100.00%	Rp 533,719.02
Replication 6	24	2	91.67%	Rp 3,627,191.09
				Rp 1,560,476.82

4.3.4 Periodic Review (R, s, S System)

Other than continuous review, there is another alternative of inventory control system, which is periodic review (R, s, S system). Different from continuous review, periodic review restrict the period for company to order raw materials from suppliers. Company could place an order only during specified time and when inventory on hand is less than s. Using the formula that has been stated in subchapter 2.5.2, parameters in periodic review for each sample are recapitulated in Table 4.56.

Table 4. 56 Parameters in Periodic Review for All Samples

Raw Material	T* (years)	T* (days)	SS	D _{T+L}	OUL
AC 260 Gr 79 x 109	0.0810	29.58	17.98	12.75	30.73
DC 400 Gr 79 x 109	0.0543	19.81	32.58	41.84	74.42
DC 250 Gr 89 x 120	0.2254	82.26	13.95	10.06	24.01
AC 360 Gr 79 x 109	0.2147	78.36	4.16	5.02	9.18
AC 230 Gr 79 x 109	0.4683	170.92	3.47	3.31	6.78
Bontak Sticker 54 x 70	0.4743	173.12	3.33	4.53	7.86

Appendix F and G deliberates data for periodic review inventory control system; Appendix F presents complete calculation replications for raw material AC 260 Gr 79 x 109, while Appendix G consists the lead time for the same raw material type. Other periodic review inventory control system calculations for the rest of raw materials types follow the logic presented in Appendix F and Appendix G.

4.3.4.1 AC 260 Gr 79 x 109

Table 4.57 exhibits the calculation example of AC 260 Gr 79 x 109 periodic review inventory control system for the first replication.

Table 4. 57 Replication 1 of AC 260 Gr 79 x 109 Periodic Review

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
3-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
4-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
5-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
6-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
7-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
8-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
9-Jan-15			9.84	74.91			Rp 57,386.30	Rp 57,386.30
10-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
11-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
12-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
13-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
14-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
15-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
16-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
17-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
18-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
19-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
20-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
...
...
18-Dec-15			0.34	20.65			Rp 15,819.35	Rp 15,819.35
19-Dec-15			0	20.65			Rp 15,819.35	Rp 15,819.35
20-Dec-15			0	20.65			Rp 15,819.35	Rp 15,819.35
21-Dec-15			0	20.65			Rp 15,819.35	Rp 15,819.35
22-Dec-15			0	20.65			Rp 15,819.35	Rp 15,819.35
23-Dec-15			0	20.65			Rp 15,819.35	Rp 15,819.35
24-Dec-15			0	20.65			Rp 15,819.35	Rp 15,819.35
25-Dec-15			0	20.65			Rp 15,819.35	Rp 15,819.35
26-Dec-15			0.14	20.51			Rp 15,712.10	Rp 15,712.10
27-Dec-15			0	20.51			Rp 15,712.10	Rp 15,712.10
28-Dec-15			0	20.51			Rp 15,712.10	Rp 15,712.10
29-Dec-15			0	20.51			Rp 15,712.10	Rp 15,712.10
30-Dec-15			0	20.51			Rp 15,712.10	Rp 15,712.10
31-Dec-15			0	20.51			Rp 15,712.10	Rp 15,712.10
							Rp	9,648,031.21

After doing all replications, total cost as well as the service level for each replication could be interfered. Table 4.58 recapitulates the replication outputs of periodic review inventory control system for AC 260 Gr 79 x 109.

Table 4. 58 Recapitulation of AC 260 Gr 79 x 109 Periodic Review

	Total Customer Order	R, s, S System		
		Total Lost Order	Service Level	Total Cost
Replication 1	33	0	100.00%	Rp 9,648,031.21
Replication 2	39	0	100.00%	Rp 13,322,230.58
Replication 3	41	0	100.00%	Rp 10,788,318.74
Replication 4	48	3	93.75%	Rp 14,920,754.96

Table 4. 58 Recapitulation of AC 260 Gr 79 x 109 Periodic Review (continued)

	Total Customer Order	R, s, S System		
		Total Lost Order	Service Level	Total Cost
Replication 5	48	0	100.00%	Rp 8,580,173.09
Replication 6	48	2	95.83%	Rp 13,910,822.15
Replication 7	43	1	97.67%	Rp 12,480,500.76
				Rp 11,950,118.79

4.3.4.2 DC 400 Gr 79 x 109

Table 4.59 exhibits the calculation example of DC 400 Gr 79 x 109 periodic review inventory control system for the first replication.

Table 4. 59 Replication 1 of DC 400 Gr 79 x 109 Periodic Review

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	68.51			Rp 28,224.06	Rp 28,224.06
1-Jan-15			0	68.51			Rp 28,224.06	Rp 28,224.06
2-Jan-15			0	68.51			Rp 28,224.06	Rp 28,224.06
3-Jan-15			0	68.51			Rp 28,224.06	Rp 28,224.06
4-Jan-15			0	68.51			Rp 28,224.06	Rp 28,224.06
5-Jan-15			6.84	61.67			Rp 25,406.19	Rp 25,406.19
6-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
7-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
8-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
9-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
10-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
11-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
12-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
13-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
14-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
15-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
16-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
17-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
18-Jan-15			0	61.67			Rp 25,406.19	Rp 25,406.19
19-Jan-15			1.49	60.18			Rp 24,792.35	Rp 24,792.35
20-Jan-15			1.71	58.47			Rp 24,087.89	Rp 24,087.89
...
...
18-Dec-15			0	56.08			Rp 23,103.28	Rp 23,103.28
19-Dec-15			0	56.08			Rp 23,103.28	Rp 23,103.28
20-Dec-15			0	56.08			Rp 23,103.28	Rp 23,103.28
21-Dec-15			17.35	38.73			Rp 15,955.60	Rp 15,955.60
22-Dec-15			4.94	33.79			Rp 13,920.47	Rp 13,920.47
23-Dec-15			0	33.79			Rp 13,920.47	Rp 13,920.47
24-Dec-15			0	33.79			Rp 13,920.47	Rp 13,920.47
25-Dec-15			0	33.79			Rp 13,920.47	Rp 13,920.47
26-Dec-15			0	33.79			Rp 13,920.47	Rp 13,920.47
27-Dec-15			0	33.79			Rp 13,920.47	Rp 13,920.47
28-Dec-15			0	33.79			Rp 13,920.47	Rp 13,920.47
29-Dec-15			0	33.79			Rp 13,920.47	Rp 13,920.47
30-Dec-15			0	33.79			Rp 13,920.47	Rp 13,920.47
31-Dec-15			0.13	33.66			Rp 13,866.91	Rp 13,866.91
								Rp 14,741,683.56

After doing all replications, total cost as well as the service level for each replication could be interfered. Table 4.60 recapitulates the replication outputs of periodic review inventory control system for DC 400 Gr 79 x 109.

Table 4. 60 Recapitulation of DC 400 Gr 79 x 109 Periodic Review

	Total Customer Order	R, s, S System		
		Total Lost Order	Service Level	Total Cost
Replication 1	75	5	93.33%	Rp 14,741,683.56
Replication 2	86	3	96.51%	Rp 11,986,081.20
Replication 3	86	2	97.67%	Rp 10,446,324.32
Replication 4	100	12	88.00%	Rp 25,326,293.05
Replication 5	87	6	93.10%	Rp 16,561,956.49
Replication 6	84	3	96.43%	Rp 11,673,415.02
Replication 7	88	7	92.05%	Rp 17,928,791.54
				Rp 15,523,506.45

4.3.4.3 DC 250 Gr 89 x 120

Table 4.61 exhibits the calculation example of DC 250 Gr 89 x 120 periodic review inventory control system for the first replication.

Table 4. 61 Replication 1 of DC 250 Gr 89 x 120 Periodic Review

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	43.51			Rp 14,574.11	Rp 14,574.11
1-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
2-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
3-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
4-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
5-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
6-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
7-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
8-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
9-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
10-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
11-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
12-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
13-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
14-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
15-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
16-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
17-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
18-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
19-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
20-Jan-15			0	43.51			Rp 14,574.11	Rp 14,574.11
...
...
18-Dec-15			0	24.01			Rp 8,042.39	Rp 8,042.39
19-Dec-15			0	24.01			Rp 8,042.39	Rp 8,042.39
20-Dec-15			0	24.01			Rp 8,042.39	Rp 8,042.39
21-Dec-15			0	24.01			Rp 8,042.39	Rp 8,042.39
22-Dec-15			0	24.01			Rp 8,042.39	Rp 8,042.39
23-Dec-15			0	24.01			Rp 8,042.39	Rp 8,042.39
24-Dec-15			0	24.01			Rp 8,042.39	Rp 8,042.39
25-Dec-15			0	24.01			Rp 8,042.39	Rp 8,042.39
26-Dec-15			0	24.01			Rp 8,042.39	Rp 8,042.39
27-Dec-15			0	24.01			Rp 8,042.39	Rp 8,042.39
28-Dec-15			0	24.01			Rp 8,042.39	Rp 8,042.39
29-Dec-15			0	24.01			Rp 8,042.39	Rp 8,042.39
30-Dec-15			0	24.01			Rp 8,042.39	Rp 8,042.39
31-Dec-15			1.29	22.72			Rp 7,610.29	Rp 7,610.29
								Rp 3,265,610.81

After doing all replications, total cost as well as the service level for each replication could be interfered. Table 4.62 recapitulates the replication outputs of periodic review inventory control system for DC 250 Gr 89 x 120.

Table 4. 62 Recapitulation of DC 250 Gr 89 x 120 Periodic Review

	Total Customer Order	R, s, S System		
		Total Lost Order	Service Level	Total Cost
Replication 1	15	0	100.00%	Rp 3,265,610.81
Replication 2	26	1	96.15%	Rp 4,879,285.38
Replication 3	21	0	100.00%	Rp 3,064,104.56
Replication 4	20	0	100.00%	Rp 4,308,647.42
Replication 5	22	0	100.00%	Rp 3,183,101.13
Replication 6	18	0	100.00%	Rp 3,997,791.14
Replication 7	16	0	100.00%	Rp 3,181,507.02
Replication 8	23	0	100.00%	Rp 2,242,413.88
				Rp 3,515,307.67

4.3.4.4 AC 360 Gr 79 x109

Table 4.63 exhibits the calculation example of AC 360 Gr 79 x 109 periodic review inventory control system for the first replication.

Table 4. 63 Replication 1 of AC 360 Gr 79 x 109 Periodic Review

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	15.68			Rp 11,054.09	Rp 11,054.09
1-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
2-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
3-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
4-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
5-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
6-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
7-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
8-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
9-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
10-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
11-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
12-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
13-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
14-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
15-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
16-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
17-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
18-Jan-15			0	15.68			Rp 11,054.09	Rp 11,054.09
19-Jan-15			0.17	15.51			Rp 10,934.24	Rp 10,934.24
20-Jan-15			0	15.51			Rp 10,934.24	Rp 10,934.24
...
...
18-Dec-15			1.48	0.78			Rp 549.88	Rp 549.88
19-Dec-15			0	0.78			Rp 549.88	Rp 549.88
20-Dec-15			0	0.78			Rp 549.88	Rp 549.88
21-Dec-15			0	0.78			Rp 549.88	Rp 549.88
22-Dec-15			0.28	0.5			Rp 352.49	Rp 352.49
23-Dec-15			0	0.5			Rp 352.49	Rp 352.49
24-Dec-15			0	0.5			Rp 352.49	Rp 352.49
25-Dec-15			0	0.5			Rp 352.49	Rp 352.49
26-Dec-15			0	0.5			Rp 352.49	Rp 352.49

Table 4. 63 Replication 1 of AC 360 Gr 79 x 109 Periodic Review (continued)

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
27-Dec-15			0	0.5			Rp 352.49	Rp 352.49
28-Dec-15			0	0.5			Rp 352.49	Rp 352.49
29-Dec-15			0.55	-0.05		Rp1,556,301.60	Rp 352.49	Rp 1,556,654.09
30-Dec-15			0	0.5			Rp 352.49	Rp 352.49
31-Dec-15			0	0.5			Rp 352.49	Rp 352.49
								Rp 4,212,172.75

After doing all replications, total cost as well as the service level for each replication could be interfered. Table 4.64 recapitulates the replication outputs of periodic review inventory control system for AC 230 Gr 79 x 109.

Table 4. 64 Recapitulation of AC 230 Gr 79 x 109 Periodic Review

	Total Customer Order	R, s, S System		
		Total Lost Order	Service Level	Total Cost
Replication 1	9	0	100.00%	Rp 1,154,130.44
Replication 2	7	0	100.00%	Rp 1,293,986.73
Replication 3	15	0	100.00%	Rp 1,047,193.78
Replication 4	4	0	100.00%	Rp 1,365,832.74
Replication 5	5	0	100.00%	Rp 1,476,867.77
Replication 6	11	0	100.00%	Rp 1,197,280.43
Replication 7	8	0	100.00%	Rp 1,132,349.86
Replication 8	5	0	100.00%	Rp 1,356,982.15
				Rp 1,253,077.99

4.3.4.5 Bontak Sticker 54 x 70

Table 4.65 exhibits the calculation example of Bontak Sticker 54 x 70 periodic review inventory control system for the first replication.

Table 4. 65 Replication 1 of Bontak Sticker 54 x 70 Periodic Review

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	2.57			Rp 874.73	Rp 874.73
1-Jan-15			0	2.57			Rp 874.73	Rp 874.73
2-Jan-15			0	2.57			Rp 874.73	Rp 874.73
3-Jan-15			0	2.57			Rp 874.73	Rp 874.73
4-Jan-15			0	2.57			Rp 874.73	Rp 874.73
5-Jan-15			0	2.57			Rp 874.73	Rp 874.73
6-Jan-15			0	2.57			Rp 874.73	Rp 874.73
7-Jan-15			0	2.57			Rp 874.73	Rp 874.73
8-Jan-15			0	2.57			Rp 874.73	Rp 874.73
9-Jan-15			0	2.57			Rp 874.73	Rp 874.73
10-Jan-15			0	2.57			Rp 874.73	Rp 874.73
11-Jan-15			0	2.57			Rp 874.73	Rp 874.73
12-Jan-15			0	2.57			Rp 874.73	Rp 874.73
13-Jan-15			0	2.57			Rp 874.73	Rp 874.73
14-Jan-15			0	2.57			Rp 874.73	Rp 874.73
15-Jan-15	5.29		0	2.57	Rp 131,774.28		Rp 874.73	Rp 132,649.01
16-Jan-15		5.29	0	7.86			Rp 2,675.23	Rp 2,675.23
17-Jan-15			0	7.86			Rp 2,675.23	Rp 2,675.23
18-Jan-15			0	7.86			Rp 2,675.23	Rp 2,675.23

Table 4. 65 Replication 1 of Bontak Sticker 54 x 70 Periodic Review (continued)

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
19-Jan-15			0	7.86			Rp 2,675.23	Rp 2,675.23
20-Jan-15			0.55	7.31			Rp 2,488.03	Rp 2,488.03
...
...
18-Dec-15			0	1.83			Rp 622.86	Rp 622.86
19-Dec-15			0	1.83			Rp 622.86	Rp 622.86
20-Dec-15			0	1.83			Rp 622.86	Rp 622.86
21-Dec-15			0	1.83			Rp 622.86	Rp 622.86
22-Dec-15			0	1.83			Rp 622.86	Rp 622.86
23-Dec-15			0	1.83			Rp 622.86	Rp 622.86
24-Dec-15			0	1.83			Rp 622.86	Rp 622.86
25-Dec-15			0	1.83			Rp 622.86	Rp 622.86
26-Dec-15			0	1.83			Rp 622.86	Rp 622.86
27-Dec-15	6.03		0	1.83	Rp 131,774.28		Rp 622.86	Rp 132,397.14
28-Dec-15			0	1.83			Rp 622.86	Rp 622.86
29-Dec-15		6.03	0	7.86			Rp 2,675.23	Rp 2,675.23
30-Dec-15			0	7.86			Rp 2,675.23	Rp 2,675.23
31-Dec-15			0	7.86			Rp 2,675.23	Rp 2,675.23
							Rp	954,874.68

After doing all replications, total cost as well as the service level for each replication could be interfered. Table 4.66 recapitulates the replication outputs of periodic review inventory control system for Bontak Sticker 54 x 70.

Table 4. 66 Recapitulation of Bontak Sticker 54 x 70 Periodic Review

	Total Customer Order	R, s, S System		
		Total Lost Order	Service Level	Total Cost
Replication 1	24	0	100.00%	Rp 954,874.68
Replication 2	13	0	100.00%	Rp 907,873.87
Replication 3	19	0	100.00%	Rp 849,478.30
Replication 4	12	0	100.00%	Rp 1,023,660.93
Replication 5	14	0	100.00%	Rp 887,642.36
Replication 6	24	5	79.17%	Rp 8,492,187.49
				Rp 2,185,952.94

4.3.5 Heuristic Method for Continuous Review (s, Q System)

Heuristic method is conducted in order to check and find better result, if possible. For continuous review heuristic, this study limits to iterate on seven different order sizes (Q), neglecting the reorder point (ROP) iteration. Also using replications to obtain each level result, Table 4.67 to 4.72 present the recapitulation of continuous review heuristic method output of the samples – AC 260 Gr 79 x 109, DC 400 Gr 79 x 109, DC 250 Gr 89 x 120, AC 360 Gr 79 x 109, AC 230 Gr 79 x 109, and Bontak Sticker 54 x 70 – respectively.

Table 4. 67 Recapitulation of AC 260 Gr 79 x 109 Continuous Review Heuristic Method

Q	ROP	Replication	Total Cost	Average Total Cost	Total Customer Order	Total Lost Order	SL	Average SL
7.5	6.55	1	Rp 9,722,452.16	Rp 12,665,538.53	33	1	96.97%	95.19%
		2	Rp 12,331,847.63		39	0	100.00%	
		3	Rp 12,326,957.10		41	2	95.12%	
		4	Rp 17,272,612.43		48	5	89.58%	
		5	Rp 6,738,454.12		48	0	100.00%	
		6	Rp 16,464,166.26		48	4	91.67%	
		7	Rp 13,802,280.02		43	3	93.02%	
10	6.55	1	Rp 9,784,110.56	Rp 11,830,680.31	33	1	96.97%	96.44%
		2	Rp 12,490,807.15		39	0	100.00%	
		3	Rp 10,667,082.84		41	1	97.56%	
		4	Rp 14,496,737.88		48	3	93.75%	
		5	Rp 8,071,979.91		48	1	97.92%	
		6	Rp 13,432,444.73		48	2	95.83%	
		7	Rp 13,871,599.12		43	3	93.02%	
11.63	6.55	1	Rp 8,528,989.38	Rp 11,804,900.57	33	0	100.00%	96.61%
		2	Rp 12,334,659.10		39	0	100.00%	
		3	Rp 10,620,771.33		41	1	97.56%	
		4	Rp 14,194,533.42		48	3	93.75%	
		5	Rp 7,070,757.31		48	0	100.00%	
		6	Rp 17,473,774.67		48	5	89.58%	
		7	Rp 12,410,818.78		43	2	95.35%	
12.5	6.55	1	Rp 8,831,395.51	Rp 11,863,350.62	33	0	100.00%	96.61%
		2	Rp 12,364,405.60		39	0	100.00%	
		3	Rp 10,794,301.50		41	1	97.56%	
		4	Rp 17,309,087.52		48	5	89.58%	
		5	Rp 7,993,830.53		48	1	97.92%	
		6	Rp 13,228,550.04		48	2	95.83%	
		7	Rp 12,521,883.61		43	2	95.35%	
15	6.55	1	Rp 10,154,112.13	Rp 11,285,521.99	33	1	96.97%	97.31%
		2	Rp 12,251,783.07		39	0	100.00%	
		3	Rp 12,362,175.84		41	2	95.12%	
		4	Rp 11,585,248.45		48	1	97.92%	
		5	Rp 6,671,371.80		48	0	100.00%	
		6	Rp 13,416,609.99		48	2	95.83%	
		7	Rp 12,557,352.65		43	2	95.35%	
17.5	6.55	1	Rp 8,820,277.25	Rp 11,783,400.27	33	0	100.00%	96.85%
		2	Rp 12,347,541.82		39	0	100.00%	
		3	Rp 12,539,965.37		41	2	95.12%	
		4	Rp 14,378,630.21		48	3	93.75%	
		5	Rp 7,414,832.49		48	0	100.00%	
		6	Rp 14,912,672.93		48	3	93.75%	
		7	Rp 12,069,881.83		43	2	95.35%	
20	6.55	1	Rp 8,738,297.52	Rp 11,231,332.80	33	0	100.00%	98.08%
		2	Rp 12,427,979.17		39	0	100.00%	
		3	Rp 12,890,442.39		41	2	95.12%	
		4	Rp 11,884,079.54		48	1	97.92%	
		5	Rp 7,175,435.62		48	0	100.00%	
		6	Rp 13,763,629.46		48	2	95.83%	
		7	Rp 11,739,465.93		43	1	97.67%	
22.5	6.55	1	Rp 9,201,769.87	Rp 11,876,474.16	33	0	100.00%	96.85%
		2	Rp 12,539,059.32		39	0	100.00%	
		3	Rp 12,887,224.90		41	2	95.12%	
		4	Rp 13,550,707.96		48	2	95.83%	
		5	Rp 7,282,631.79		48	1	97.92%	
		6	Rp 15,082,939.64		48	3	93.75%	
		7	Rp 12,590,985.63		43	2	95.35%	

Table 4. 68 Recapitulation of DC 400 Gr 79 x 109 Continuous Review Heuristic Method

Q	ROP	Replication	Total Cost	Average Total Cost	Total Customer Order	Total Lost Order	SL	Average SL
27.5	25.63	1	Rp 12,322,037.70	Rp 11,322,997.37	75	3	96.00%	96.95%
		2	Rp 11,833,977.85		86	3	96.51%	
		3	Rp 11,682,514.51		86	3	96.51%	
		4	Rp 9,100,315.54		100	1	99.00%	
		5	Rp 13,549,080.52		87	4	95.40%	
		6	Rp 13,409,640.48		84	4	95.24%	
		7	Rp 7,363,415.00		88	0	100.00%	

Table 4. 68 Recapitulation of DC 400 Gr 79 x 109 Continuous Review Heuristic Method (cont'd)

Q	ROP	Replication	Total Cost	Average Total Cost	Total Customer Order	Total Lost Order	SL	Average SL
30	25.63	1	Rp 10,861,410.46	Rp 10,073,851.53	75	2	97.33%	97.86%
		2	Rp 10,147,265.59		86	2	97.67%	
		3	Rp 9,947,807.75		86	2	97.67%	
		4	Rp 12,078,967.71		100	3	97.00%	
		5	Rp 11,779,605.04		87	3	96.55%	
		6	Rp 8,873,839.07		84	1	98.81%	
		7	Rp 6,828,065.11		88	0	100.00%	
32.3	25.63	1	Rp 10,861,071.08	Rp 9,080,469.61	75	2	97.33%	98.65%
		2	Rp 10,246,506.05		86	2	97.67%	
		3	Rp 7,263,665.71		86	0	100.00%	
		4	Rp 9,304,573.84		100	1	99.00%	
		5	Rp 10,337,659.08		87	2	97.70%	
		6	Rp 8,558,375.61		84	1	98.81%	
		7	Rp 6,991,435.93		88	0	100.00%	
35	25.63	1	Rp 12,237,725.93	Rp 9,250,550.16	75	2	97.33%	98.70%
		2	Rp 7,104,809.53		86	0	100.00%	
		3	Rp 8,725,511.83		86	1	98.84%	
		4	Rp 12,029,518.40		100	3	97.00%	
		5	Rp 10,252,614.56		87	2	97.70%	
		6	Rp 7,398,445.27		84	0	100.00%	
		7	Rp 7,005,225.58		88	0	100.00%	
37.5	25.63	1	Rp 10,634,820.73	Rp 8,346,369.38	75	2	97.33%	99.29%
		2	Rp 7,187,601.58		86	0	100.00%	
		3	Rp 10,692,611.88		86	2	97.67%	
		4	Rp 7,718,387.39		100	0	100.00%	
		5	Rp 7,594,785.04		87	0	100.00%	
		6	Rp 7,429,399.14		84	0	100.00%	
		7	Rp 7,166,979.92		88	0	100.00%	
40	25.63	1	Rp 10,834,663.26	Rp 10,194,867.52	75	2	97.33%	97.86%
		2	Rp 11,727,809.52		86	3	96.51%	
		3	Rp 10,187,886.84		86	2	97.67%	
		4	Rp 12,051,381.10		100	3	97.00%	
		5	Rp 9,080,224.69		87	1	98.85%	
		6	Rp 8,977,056.05		84	1	98.81%	
		7	Rp 8,505,051.22		88	1	98.86%	
42.5	25.63	1	Rp 7,915,335.79	Rp 8,153,223.49	75	0	100.00%	99.49%
		2	Rp 8,990,810.17		86	1	98.84%	
		3	Rp 7,239,419.17		86	0	100.00%	
		4	Rp 7,333,674.33		100	0	100.00%	
		5	Rp 7,987,298.71		87	0	100.00%	
		6	Rp 10,391,613.70		84	2	97.62%	
		7	Rp 7,214,412.59		88	0	100.00%	
45	25.63	1	Rp 8,091,509.08	Rp 9,257,419.96	75	0	100.00%	98.88%
		2	Rp 10,466,963.01		86	2	97.67%	
		3	Rp 9,110,872.14		86	1	98.84%	
		4	Rp 10,669,184.71		100	2	98.00%	
		5	Rp 9,740,833.51		87	1	98.85%	
		6	Rp 9,037,432.82		84	1	98.81%	
		7	Rp 7,685,144.44		88	0	100.00%	

Table 4. 69 Recapitulation of DC 250 Gr 89 x 120 Continuous Review Heuristic Method

Q	ROP	Replication	Total Cost	Average Total Cost	Total Customer Order	Total Lost Order	SL	Average SL
4	3.61	1	Rp 4,202,043.15	Rp 4,941,653.21	15	1	93.33%	94.21%
		2	Rp 4,435,948.77		26	1	96.15%	
		3	Rp 4,450,248.81		21	1	95.24%	
		4	Rp 4,308,647.42		20	0	100.00%	
		5	Rp 6,885,030.31		22	3	86.36%	
		6	Rp 3,997,791.14		18	0	100.00%	
		7	Rp 3,181,507.02		16	0	100.00%	
		8	Rp 8,072,009.07		23	4	82.61%	

Table 4. 69 Recapitulation of DC 250 Gr 89 x 120 Continuous Review Heuristic Method (cont'd)

Q	ROP	Replication	Total Cost	Average Total Cost	Total Customer Order	Total Lost Order	SL	Average SL
6	3.61	1	Rp 2,850,704.59	Rp 4,771,013.53	15	0	100.00%	95.11%
		2	Rp 5,811,587.66		26	2	92.31%	
		3	Rp 4,450,248.81		21	1	95.24%	
		4	Rp 4,308,647.42		20	0	100.00%	
		5	Rp 6,885,030.31		22	3	86.36%	
		6	Rp 3,997,791.14		18	0	100.00%	
		7	Rp 3,181,507.02		16	0	100.00%	
		8	Rp 6,682,591.25		23	3	86.96%	
8	3.61	1	Rp 4,172,096.71	Rp 4,544,029.13	15	1	93.33%	95.24%
		2	Rp 2,745,131.90		26	0	100.00%	
		3	Rp 4,450,248.81		21	1	95.24%	
		4	Rp 4,308,647.42		20	0	100.00%	
		5	Rp 6,885,030.31		22	3	86.36%	
		6	Rp 3,997,791.14		18	0	100.00%	
		7	Rp 3,181,507.02		16	0	100.00%	
		8	Rp 6,611,779.69		23	3	86.96%	
9.56	3.61	1	Rp 4,155,026.13	Rp 4,721,966.66	15	1	93.33%	94.76%
		2	Rp 4,297,299.08		26	1	96.15%	
		3	Rp 4,450,248.81		21	1	95.24%	
		4	Rp 4,308,647.42		20	0	100.00%	
		5	Rp 6,885,030.31		22	3	86.36%	
		6	Rp 3,997,791.14		18	0	100.00%	
		7	Rp 3,181,507.02		16	0	100.00%	
		8	Rp 6,500,183.40		23	3	86.96%	
12	3.61	1	Rp 2,958,961.63	Rp 4,786,273.67	15	0	100.00%	95.11%
		2	Rp 5,714,849.18		26	2	92.31%	
		3	Rp 4,450,248.81		21	1	95.24%	
		4	Rp 4,308,647.42		20	0	100.00%	
		5	Rp 6,885,030.31		22	3	86.36%	
		6	Rp 3,997,791.14		18	0	100.00%	
		7	Rp 3,181,507.02		16	0	100.00%	
		8	Rp 6,793,153.83		23	3	86.96%	
14	3.61	1	Rp 3,140,509.95	Rp 4,293,710.49	15	0	100.00%	96.68%
		2	Rp 4,346,749.22		26	1	96.15%	
		3	Rp 4,450,248.81		21	1	95.24%	
		4	Rp 4,308,647.42		20	0	100.00%	
		5	Rp 6,885,030.31		22	3	86.36%	
		6	Rp 3,997,791.14		18	0	100.00%	
		7	Rp 3,181,507.02		16	0	100.00%	
		8	Rp 4,039,200.01		23	1	95.65%	
16	3.61	1	Rp 3,209,511.71	Rp 4,277,787.49	15	0	100.00%	96.61%
		2	Rp 2,773,668.46		26	0	100.00%	
		3	Rp 4,450,248.81		21	1	95.24%	
		4	Rp 4,308,647.42		20	0	100.00%	
		5	Rp 6,885,030.31		22	3	86.36%	
		6	Rp 3,997,791.14		18	0	100.00%	
		7	Rp 3,181,507.02		16	0	100.00%	
		8	Rp 5,415,895.05		23	2	91.30%	
18	3.61	1	Rp 3,057,439.87	Rp 4,139,402.19	15	0	100.00%	97.16%
		2	Rp 2,961,246.06		26	0	100.00%	
		3	Rp 4,450,248.81		21	1	95.24%	
		4	Rp 4,308,647.42		20	0	100.00%	
		5	Rp 6,885,030.31		22	3	86.36%	
		6	Rp 3,997,791.14		18	0	100.00%	
		7	Rp 3,181,507.02		16	0	100.00%	
		8	Rp 4,273,306.91		23	1	95.65%	

Table 4. 70 Recapitulation of AC 360 Gr 79 x 109 Continuous Review Heuristic Method

Q	ROP	Replication	Total Cost	Average Total Cost	Total Customer Order	Total Lost Order	SL	Average SL
2	1.19	1	Rp 2,800,581.82	Rp 3,415,617.29	22	0	100.00%	98.57%
		2	Rp 4,030,652.76		35	1	97.14%	
3	1.19	1	Rp 2,809,746.56	Rp 3,356,779.95	22	0	100.00%	98.57%
		2	Rp 3,903,813.34		35	1	97.14%	
4	1.19	1	Rp 2,820,321.26	Rp 2,627,505.41	22	0	100.00%	100.00%
		2	Rp 2,434,689.57		35	0	100.00%	
4.77	1.19	1	Rp 2,816,747.01	Rp 2,646,201.48	22	0	100.00%	100.00%
		2	Rp 2,475,655.95		35	0	100.00%	

Table 4. 70 Recapitulation of AC 360 Gr 79 x 109 Continuous Review Heuristic Method (cont'd)

Q	ROP	Replication	Total Cost	Average Total Cost	Total Customer Order	Total Lost Order	SL	Average SL
6	1.19	1	Rp 2,837,240.78	Rp 3,339,536.43	22	0	100.00%	98.57%
		2	Rp 3,841,832.08		35	1	97.14%	
7	1.19	1	Rp 2,835,830.82	Rp 2,591,227.43	22	0	100.00%	100.00%
		2	Rp 2,346,624.05		35	0	100.00%	
8	1.19	1	Rp 2,842,880.62	Rp 2,637,756.11	22	0	100.00%	100.00%
		2	Rp 2,432,631.61		35	0	100.00%	
9	1.19	1	Rp 2,849,930.42	Rp 2,670,537.68	22	0	100.00%	100.00%
		2	Rp 2,491,144.95		35	0	100.00%	

Table 4. 71 Recapitulation of AC 230 Gr 79 x 109 Continuous Review Heuristic Method

Q	ROP	Replication	Total Cost	Average Total Cost	Total Customer Order	Total Lost Order	SL	Average SL
1	0.49	1	Rp 1,007,862.62	Rp 1,306,954.62	9	0	100.00%	98.86%
		2	Rp 1,147,022.42		7	0	100.00%	
		3	Rp 901,205.50		15	0	100.00%	
		4	Rp 1,365,832.74		4	0	100.00%	
		5	Rp 1,476,867.77		5	0	100.00%	
		6	Rp 2,348,207.21		11	1	90.91%	
		7	Rp 851,656.52		8	0	100.00%	
		8	Rp 1,356,982.15		5	0	100.00%	
2	0.49	1	Rp 1,007,862.62	Rp 1,311,337.27	9	0	100.00%	98.86%
		2	Rp 1,147,022.42		7	0	100.00%	
		3	Rp 901,205.50		15	0	100.00%	
		4	Rp 1,365,832.74		4	0	100.00%	
		5	Rp 1,476,867.77		5	0	100.00%	
		6	Rp 2,361,947.41		11	1	90.91%	
		7	Rp 872,977.52		8	0	100.00%	
		8	Rp 1,356,982.15		5	0	100.00%	
3	0.49	1	Rp 1,007,862.62	Rp 1,315,660.69	9	0	100.00%	98.86%
		2	Rp 1,147,022.42		7	0	100.00%	
		3	Rp 901,205.50		15	0	100.00%	
		4	Rp 1,365,832.74		4	0	100.00%	
		5	Rp 1,476,867.77		5	0	100.00%	
		6	Rp 2,377,109.01		11	1	90.91%	
		7	Rp 892,403.32		8	0	100.00%	
		8	Rp 1,356,982.15		5	0	100.00%	
3.25	0.49	1	Rp 1,007,862.62	Rp 1,316,549.07	9	0	100.00%	98.86%
		2	Rp 1,147,022.42		7	0	100.00%	
		3	Rp 901,205.50		15	0	100.00%	
		4	Rp 1,365,832.74		4	0	100.00%	
		5	Rp 1,476,867.77		5	0	100.00%	
		6	Rp 2,380,662.51		11	1	90.91%	
		7	Rp 895,956.82		8	0	100.00%	
		8	Rp 1,356,982.15		5	0	100.00%	
4	0.49	1	Rp 1,007,862.62	Rp 1,320,221.02	9	0	100.00%	98.86%
		2	Rp 1,147,022.42		7	0	100.00%	
		3	Rp 901,205.50		15	0	100.00%	
		4	Rp 1,365,832.74		4	0	100.00%	
		5	Rp 1,476,867.77		5	0	100.00%	
		6	Rp 2,391,323.01		11	1	90.91%	
		7	Rp 914,671.92		8	0	100.00%	
		8	Rp 1,356,982.15		5	0	100.00%	
5	0.49	1	Rp 1,007,862.62	Rp 1,324,307.54	9	0	100.00%	98.86%
		2	Rp 1,147,022.42		7	0	100.00%	
		3	Rp 901,205.50		15	0	100.00%	
		4	Rp 1,365,832.74		4	0	100.00%	
		5	Rp 1,476,867.77		5	0	100.00%	
		6	Rp 2,403,168.01		11	1	90.91%	
		7	Rp 935,519.12		8	0	100.00%	
		8	Rp 1,356,982.15		5	0	100.00%	
6	0.49	1	Rp 1,007,862.62	Rp 1,328,275.62	9	0	100.00%	98.86%
		2	Rp 1,147,022.42		7	0	100.00%	
		3	Rp 901,205.50		15	0	100.00%	
		4	Rp 1,365,832.74		4	0	100.00%	
		5	Rp 1,476,867.77		5	0	100.00%	
		6	Rp 2,414,065.41		11	1	90.91%	
		7	Rp 956,366.32		8	0	100.00%	
		8	Rp 1,356,982.15		5	0	100.00%	

Table 4. 71 Recapitulation of AC 230 Gr 79 x 109 Continuous Review Heuristic Method (cont'd)

Q	ROP	Replication	Total Cost	Average Total Cost	Total Customer Order	Total Lost Order	SL	Average SL
7	0.49	1	Rp 1,007,862.62	Rp 1,332,954.39	9	0	100.00%	98.86%
		2	Rp 1,147,022.42		7	0	100.00%	
		3	Rp 901,205.50		15	0	100.00%	
		4	Rp 1,365,832.74		4	0	100.00%	
		5	Rp 1,476,867.77		5	0	100.00%	
		6	Rp 2,433,965.01		11	1	90.91%	
		7	Rp 973,896.92		8	0	100.00%	
		8	Rp 1,356,982.15		5	0	100.00%	

Table 4. 72 Recapitulation of Bontak Sticker 54 x 70 Continuous Review Heuristic Method

Q	ROP	Replication	Total Cost	Average Total Cost	Total Customer Order	Total Lost Order	SL	Average SL
1	0.43	1	Rp 7,131,976.10	Rp 5,000,816.85	24	4	83.33%	84.13%
		2	Rp 5,198,234.18		13	3	76.92%	
		3	Rp 6,770,329.46		19	5	73.68%	
		4	Rp 2,007,160.48		12	1	91.67%	
		5	Rp 307,297.93		14	0	100.00%	
		6	Rp 8,589,902.95		24	5	79.17%	
2	0.43	1	Rp 5,366,389.54	Rp 3,139,406.62	24	3	87.50%	91.41%
		2	Rp 2,139,411.26		13	1	92.31%	
		3	Rp 3,563,029.82		19	2	89.47%	
		4	Rp 1,885,256.64		12	1	91.67%	
		5	Rp 372,306.69		14	0	100.00%	
		6	Rp 5,510,045.79		24	3	87.50%	
3	0.43	1	Rp 5,270,819.35	Rp 3,603,056.72	24	3	87.50%	90.35%
		2	Rp 2,163,641.49		13	1	92.31%	
		3	Rp 6,577,986.64		19	4	78.95%	
		4	Rp 504,554.07		12	0	100.00%	
		5	Rp 437,655.81		14	0	100.00%	
		6	Rp 6,663,682.98		24	4	83.33%	
4	0.43	1	Rp 5,164,020.69	Rp 3,058,594.93	24	3	87.50%	91.92%
		2	Rp 2,030,781.46		13	1	92.31%	
		3	Rp 5,110,787.88		19	3	84.21%	
		4	Rp 376,183.39		12	0	100.00%	
		5	Rp 504,366.37		14	0	100.00%	
		6	Rp 5,165,429.78		24	3	87.50%	
4.47	0.43	1	Rp 3,649,256.62	Rp 1,560,476.82	24	2	91.67%	97.22%
		2	Rp 526,200.97		13	0	100.00%	
		3	Rp 633,189.73		19	0	100.00%	
		4	Rp 393,303.50		12	0	100.00%	
		5	Rp 533,719.02		14	0	100.00%	
		6	Rp 3,627,191.09		24	2	91.67%	
5	0.43	1	Rp 3,673,680.86	Rp 1,846,127.14	24	2	91.67%	96.35%
		2	Rp 541,489.94		13	0	100.00%	
		3	Rp 2,235,436.53		19	1	94.74%	
		4	Rp 407,836.87		12	0	100.00%	
		5	Rp 564,950.45		14	0	100.00%	
		6	Rp 3,653,368.17		24	2	91.67%	
6	0.43	1	Rp 5,250,342.79	Rp 2,394,384.75	24	3	87.50%	94.55%
		2	Rp 2,133,975.21		13	1	92.31%	
		3	Rp 771,678.81		19	0	100.00%	
		4	Rp 436,086.75		12	0	100.00%	
		5	Rp 635,745.33		14	0	100.00%	
		6	Rp 5,138,479.57		24	3	87.50%	
7	0.43	1	Rp 3,789,062.90	Rp 1,913,325.38	24	2	91.67%	96.53%
		2	Rp 655,850.90		13	0	100.00%	
		3	Rp 739,970.37		19	0	100.00%	
		4	Rp 468,420.95		12	0	100.00%	
		5	Rp 701,434.81		14	0	100.00%	
		6	Rp 5,125,212.34		24	3	87.50%	

4.3.6 Heuristic Method for Periodic Review (R, s, S System)

Just the same as heuristic for continuous review, heuristic method for periodic review is also brought off. For periodic review heuristic, this study limits to iterate on seven different review period (T). Also using replications to obtain each level result, Table 4.73 to 4.78 present the recapitulation of periodic review heuristic method output of the samples – AC 260 Gr 79 x 109, DC 400 Gr 79 x 109, DC 250 Gr 89 x 120, AC 360 Gr 79 x 109, AC 230 Gr 79 x 109, and Bontak Sticker 54 x 70 – correspondingly.

Table 4. 73 Recapitulation of AC 260 Gr 79 x 109 Periodic Review Heuristic Method

T	SS	OUL	Replication	Total Cost	Average Total Cost	Total Customer Order	Total Lost Order	SL	Average SL
10	11.35	16.4	1	Rp 8,687,736.98	Rp 11,974,713.92	33	0	100.00%	96.94%
			2	Rp 12,829,259.46		39	0	100.00%	
			3	Rp 11,217,192.62		41	1	97.56%	
			4	Rp 17,621,156.38		48	5	89.58%	
			5	Rp 8,760,641.11		48	1	97.92%	
			6	Rp 13,580,549.05		48	2	95.83%	
			7	Rp 11,126,461.87		43	1	97.67%	
15	13.36	20.38	1	Rp 8,988,378.57	Rp 11,235,908.89	33	0	100.00%	98.48%
			2	Rp 12,838,120.31		39	0	100.00%	
			3	Rp 9,832,986.07		41	0	100.00%	
			4	Rp 11,900,195.15		48	1	97.92%	
			5	Rp 7,952,141.32		48	0	100.00%	
			6	Rp 15,536,578.31		48	3	93.75%	
			7	Rp 11,602,962.49		43	1	97.67%	
20	15.1	24.09	1	Rp 9,738,670.11	Rp 11,240,063.56	33	0	100.00%	98.81%
			2	Rp 12,902,631.06		39	0	100.00%	
			3	Rp 10,175,603.22		41	0	100.00%	
			4	Rp 13,673,537.12		48	2	95.83%	
			5	Rp 7,883,302.20		48	0	100.00%	
			6	Rp 14,027,223.98		48	2	95.83%	
			7	Rp 10,279,477.23		43	0	100.00%	
25	16.67	27.62	1	Rp 9,556,363.27	Rp 12,092,367.39	33	0	100.00%	97.88%
			2	Rp 13,088,648.18		39	0	100.00%	
			3	Rp 10,125,729.48		41	0	100.00%	
			4	Rp 15,710,846.42		48	3	93.75%	
			5	Rp 9,749,103.74		48	1	97.92%	
			6	Rp 13,891,274.62		48	2	95.83%	
			7	Rp 12,524,605.99		43	1	97.67%	
29.58	17.98	30.73	1	Rp 9,648,031.21	Rp 11,950,118.79	33	0	100.00%	98.18%
			2	Rp 13,322,230.58		39	0	100.00%	
			3	Rp 10,788,318.74		41	0	100.00%	
			4	Rp 14,920,754.96		48	3	93.75%	
			5	Rp 8,580,173.09		48	0	100.00%	
			6	Rp 13,910,822.15		48	2	95.83%	
			7	Rp 12,480,500.76		43	1	97.67%	
35	19.42	34.3	1	Rp 10,223,709.83	Rp 11,683,952.94	33	0	100.00%	98.81%
			2	Rp 13,159,816.08		39	0	100.00%	
			3	Rp 10,883,434.00		41	0	100.00%	
			4	Rp 12,102,149.03		48	1	97.92%	
			5	Rp 8,850,468.07		48	0	100.00%	
			6	Rp 16,022,639.41		48	3	93.75%	
			7	Rp 10,545,454.15		43	0	100.00%	
40	20.66	37.51	1	Rp 10,753,799.63	Rp 12,086,195.49	33	0	100.00%	98.81%
			2	Rp 13,178,421.34		39	0	100.00%	
			3	Rp 11,356,612.45		41	0	100.00%	
			4	Rp 14,083,453.44		48	2	95.83%	
			5	Rp 9,563,160.89		48	0	100.00%	
			6	Rp 14,401,985.35		48	2	95.83%	
			7	Rp 11,265,935.33		43	0	100.00%	

Table 4. 73 Recapitulation of AC 260 Gr 79 x 109 Periodic Review Heuristic Method (continued)

T	SS	OUL	Replication	Total Cost	Average Total Cost	Total Customer Order	Total Lost Order	SL	Average SL
45	21.83	40.64	1	Rp 10,970,972.81	Rp 12,221,266.35	33	0	100.00%	98.48%
			2	Rp 13,537,102.98		39	0	100.00%	
			3	Rp 10,869,243.80		41	0	100.00%	
			4	Rp 10,933,511.99		48	0	100.00%	
			5	Rp 10,822,109.84		48	1	97.92%	
			6	Rp 15,776,947.94		48	3	93.75%	
			7	Rp 12,638,975.08		43	1	97.67%	

Table 4. 74 Recapitulation of DC 400 Gr 79 x 109 Periodic Review Heuristic Method

T	SS	OUL	Replication	Total Cost	Average Total Cost	Total Customer Order	Total Lost Order	SL	Average SL
5	21.48	39.18	1	Rp 17,364,287.17	Rp 14,405,102.33	75	7	90.67%	93.91%
			2	Rp 13,710,419.75		86	5	94.19%	
			3	Rp 10,866,528.65		86	3	96.51%	
			4	Rp 20,108,727.24		100	9	91.00%	
			5	Rp 15,490,415.93		87	6	93.10%	
			6	Rp 10,829,823.13		84	3	96.43%	
			7	Rp 12,465,514.46		88	4	95.45%	
10	25.77	51.62	1	Rp 14,434,724.25	Rp 13,503,057.58	75	5	93.33%	94.74%
			2	Rp 11,196,717.39		86	3	96.51%	
			3	Rp 13,741,626.93		86	5	94.19%	
			4	Rp 17,241,736.90		100	7	93.00%	
			5	Rp 17,163,379.65		87	7	91.95%	
			6	Rp 9,536,924.80		84	2	97.62%	
			7	Rp 11,206,293.12		88	3	96.59%	
15	29.44	63.44	1	Rp 18,223,942.31	Rp 16,332,204.65	75	7	90.67%	93.07%
			2	Rp 13,285,202.29		86	4	95.35%	
			3	Rp 9,685,789.61		86	2	97.67%	
			4	Rp 29,578,384.64		100	15	85.00%	
			5	Rp 16,169,194.09		87	6	93.10%	
			6	Rp 9,914,542.64		84	2	97.62%	
			7	Rp 17,468,376.98		88	7	92.05%	
19.81	32.58	74.42	1	Rp 14,741,683.56	Rp 15,523,506.45	75	5	93.33%	93.87%
			2	Rp 11,986,081.20		86	3	96.51%	
			3	Rp 10,446,324.32		86	2	97.67%	
			4	Rp 25,326,293.05		100	12	88.00%	
			5	Rp 16,561,956.49		87	6	93.10%	
			6	Rp 11,673,415.02		84	3	96.43%	
			7	Rp 17,928,791.54		88	7	92.05%	
25	35.66	85.97	1	Rp 15,982,302.38	Rp 15,600,869.20	75	5	93.33%	94.22%
			2	Rp 15,204,755.33		86	5	94.19%	
			3	Rp 12,350,116.94		86	3	96.51%	
			4	Rp 16,931,792.77		100	6	94.00%	
			5	Rp 16,730,984.67		87	6	93.10%	
			6	Rp 14,779,819.66		84	4	95.24%	
			7	Rp 17,226,312.68		88	6	93.18%	
30	38.4	96.86	1	Rp 17,875,509.93	Rp 17,004,929.28	75	6	92.00%	93.66%
			2	Rp 17,778,073.35		86	6	93.02%	
			3	Rp 12,351,244.18		86	3	96.51%	
			4	Rp 24,695,405.80		100	11	89.00%	
			5	Rp 13,636,266.68		87	3	96.55%	
			6	Rp 11,456,371.22		84	2	97.62%	
			7	Rp 21,241,633.80		88	8	90.91%	
35	40.95	107.56	1	Rp 17,909,883.15	Rp 17,534,902.35	75	6	92.00%	93.57%
			2	Rp 15,276,924.27		86	4	95.35%	
			3	Rp 17,720,603.54		86	6	93.02%	
			4	Rp 19,548,132.82		100	7	93.00%	
			5	Rp 19,583,972.65		87	7	91.95%	
			6	Rp 12,544,186.24		84	2	97.62%	
			7	Rp 20,160,613.75		88	7	92.05%	
40	43.36	118.12	1	Rp 11,300,553.40	Rp 18,554,967.70	75	1	98.67%	93.52%
			2	Rp 14,172,350.33		86	3	96.51%	
			3	Rp 17,025,982.51		86	5	94.19%	
			4	Rp 31,189,006.57		100	14	86.00%	
			5	Rp 28,208,570.03		87	12	86.21%	
			6	Rp 12,263,295.30		84	2	97.62%	
			7	Rp 15,725,015.80		88	4	95.45%	

Table 4. 75 Recapitulation of DC 250 Gr 89 x 120 Periodic Review Heuristic Method

T	SS	OUL	Replication	Total Cost	Average Total Cost	Total Customer Order	Total Lost Order	SL	Average SL
50	11.05	17.36	1	Rp 2,835,813.59	Rp 3,973,658.04	15	0	100.00%	97.77%
			2	Rp 3,035,001.92		26	0	100.00%	
			3	Rp 4,450,248.81		21	1	95.24%	
			4	Rp 4,308,647.42		20	0	100.00%	
			5	Rp 3,089,889.48		22	0	100.00%	
			6	Rp 3,997,791.14		18	0	100.00%	
			7	Rp 3,181,507.02		16	0	100.00%	
			8	Rp 6,890,364.90		23	3	86.96%	
60	12.02	19.49	1	Rp 3,064,815.69	Rp 4,396,723.92	15	0	100.00%	95.76%
			2	Rp 7,459,947.63		26	3	88.46%	
			3	Rp 4,450,248.81		21	1	95.24%	
			4	Rp 4,308,647.42		20	0	100.00%	
			5	Rp 4,558,620.45		22	1	95.45%	
			6	Rp 3,997,791.14		18	0	100.00%	
			7	Rp 3,181,507.02		16	0	100.00%	
			8	Rp 4,152,213.18		23	3	86.96%	
70	12.92	21.56	1	Rp 3,132,310.13	Rp 4,471,118.50	15	0	100.00%	96.97%
			2	Rp 9,006,362.23		26	4	84.62%	
			3	Rp 3,313,232.08		21	0	100.00%	
			4	Rp 4,308,647.42		20	0	100.00%	
			5	Rp 4,560,741.77		22	1	95.45%	
			6	Rp 3,997,791.14		18	0	100.00%	
			7	Rp 3,181,507.02		16	0	100.00%	
			8	Rp 4,268,356.20		23	1	95.65%	
82.26	13.95	24.01	1	Rp 3,265,610.81	Rp 3,515,307.67	15	0	100.00%	99.52%
			2	Rp 4,879,285.38		26	1	96.15%	
			3	Rp 3,064,104.56		21	0	100.00%	
			4	Rp 4,308,647.42		20	0	100.00%	
			5	Rp 3,183,101.13		22	0	100.00%	
			6	Rp 3,997,791.14		18	0	100.00%	
			7	Rp 3,181,507.02		16	0	100.00%	
			8	Rp 2,242,413.88		23	0	100.00%	
90	14.55	25.52	1	Rp 3,027,118.28	Rp 4,232,556.54	15	0	100.00%	97.38%
			2	Rp 6,199,757.37		26	2	92.31%	
			3	Rp 3,317,719.52		21	0	100.00%	
			4	Rp 4,308,647.42		20	0	100.00%	
			5	Rp 4,411,387.77		22	1	95.45%	
			6	Rp 3,997,791.14		18	0	100.00%	
			7	Rp 3,181,507.02		16	0	100.00%	
			8	Rp 5,416,523.75		23	2	91.30%	
100	15.31	27.43	1	Rp 3,317,861.22	Rp 4,573,504.80	15	0	100.00%	96.97%
			2	Rp 9,299,417.72		26	4	84.62%	
			3	Rp 3,218,725.44		21	0	100.00%	
			4	Rp 4,308,647.42		20	0	100.00%	
			5	Rp 4,402,933.38		22	1	95.45%	
			6	Rp 3,997,791.14		18	0	100.00%	
			7	Rp 3,507,665.29		16	0	100.00%	
			8	Rp 4,534,996.74		23	1	95.65%	
110	16.02	29.31	1	Rp 3,172,780.00	Rp 4,748,707.89	15	0	100.00%	96.48%
			2	Rp 10,609,319.39		26	5	80.77%	
			3	Rp 3,595,588.94		21	0	100.00%	
			4	Rp 4,308,647.42		20	0	100.00%	
			5	Rp 4,594,946.87		22	1	95.45%	
			6	Rp 3,997,791.14		18	0	100.00%	
			7	Rp 3,407,472.06		16	0	100.00%	
			8	Rp 4,303,117.33		23	1	95.65%	
120	16.71	31.16	1	Rp 2,828,192.23	Rp 4,801,699.66	15	0	100.00%	95.92%
			2	Rp 10,260,313.50		26	5	80.77%	
			3	Rp 3,584,937.21		21	0	100.00%	
			4	Rp 4,308,647.42		20	0	100.00%	
			5	Rp 6,201,705.82		22	2	90.91%	
			6	Rp 3,997,791.14		18	0	100.00%	
			7	Rp 3,181,507.02		16	0	100.00%	
			8	Rp 4,050,502.88		23	1	95.65%	

Table 4. 76 Recapitulation of AC 360 Gr 79 x 109 Periodic Review Heuristic Method

T	SS	OUL	Replication	Total Cost	Average Total Cost	Total Customer Order	Total Lost Order	SL	Average SL
50	3.37	6.66	1	Rp 4,212,172.75	Rp 3,379,646.27	22	1	95.45%	97.73%
			2	Rp 2,547,119.78		35	0	100.00%	
60	3.67	7.57	1	Rp 4,212,172.75	Rp 3,404,013.90	22	1	95.45%	97.73%
			2	Rp 2,595,855.04		35	0	100.00%	
70	3.94	8.45	1	Rp 4,212,172.75	Rp 4,105,385.62	22	1	95.45%	96.30%
			2	Rp 3,998,598.48		35	1	97.14%	
78.36	4.16	9.18	1	Rp 4,212,172.75	Rp 3,459,672.07	22	1	95.45%	97.73%
			2	Rp 2,707,171.39		35	0	100.00%	
90	4.44	10.17	1	Rp 4,212,172.75	Rp 4,140,550.02	22	1	95.45%	96.30%
			2	Rp 4,068,927.29		35	1	97.14%	
100	4.67	11.01	1	Rp 4,212,172.75	Rp 3,596,593.29	22	1	95.45%	97.73%
			2	Rp 2,981,013.82		35	0	100.00%	
110	4.89	6.94	1	Rp 2,842,570.43	Rp 2,781,649.58	22	0	100.00%	100.00%
			2	Rp 2,720,728.73		35	0	100.00%	
120	5.1	12.66	1	Rp 4,212,172.75	Rp 3,439,647.40	22	1	95.45%	97.73%
			2	Rp 2,667,122.05		35	0	100.00%	

Table 4. 77 Recapitulation of AC 230 Gr 79 x 109 Periodic Review Heuristic Method

T	SS	OUL	Replication	Total Cost	Average Total Cost	Total Customer Order	Total Lost Order	SL	Average SL
90	2.54	4.31	1	Rp 1,007,862.62	Rp 1,160,517.81	9	0	100.00%	100.00%
			2	Rp 1,147,022.42		7	0	100.00%	
			3	Rp 901,205.50		15	0	100.00%	
			4	Rp 1,365,832.74		4	0	100.00%	
			5	Rp 1,476,867.77		5	0	100.00%	
			6	Rp 1,075,130.06		11	0	100.00%	
			7	Rp 953,239.24		8	0	100.00%	
			8	Rp 1,356,982.15		5	0	100.00%	
110	2.8	4.95	1	Rp 1,007,862.62	Rp 1,186,546.27	9	0	100.00%	100.00%
			2	Rp 1,303,552.75		7	0	100.00%	
			3	Rp 1,061,516.76		15	0	100.00%	
			4	Rp 1,365,832.74		4	0	100.00%	
			5	Rp 1,476,867.77		5	0	100.00%	
			6	Rp 1,050,857.28		11	0	100.00%	
			7	Rp 868,898.11		8	0	100.00%	
			8	Rp 1,356,982.15		5	0	100.00%	
130	3.04	5.57	1	Rp 1,007,862.62	Rp 1,371,935.23	9	0	100.00%	98.86%
			2	Rp 1,147,022.42		7	0	100.00%	
			3	Rp 1,153,580.84		15	0	100.00%	
			4	Rp 1,365,832.74		4	0	100.00%	
			5	Rp 1,476,867.77		5	0	100.00%	
			6	Rp 2,502,495.44		11	1	90.91%	
			7	Rp 964,837.87		8	0	100.00%	
			8	Rp 1,356,982.15		5	0	100.00%	
150	3.26	6.17	1	Rp 1,007,862.62	Rp 1,219,301.71	9	0	100.00%	100.00%
			2	Rp 1,147,022.42		7	0	100.00%	
			3	Rp 1,118,647.56		15	0	100.00%	
			4	Rp 1,365,832.74		4	0	100.00%	
			5	Rp 1,476,867.77		5	0	100.00%	
			6	Rp 1,168,942.46		11	0	100.00%	
			7	Rp 1,112,256.00		8	0	100.00%	
			8	Rp 1,356,982.15		5	0	100.00%	
170.92	3.47	6.78	1	Rp 1,154,130.44	Rp 1,253,077.99	9	0	100.00%	100.00%
			2	Rp 1,293,986.73		7	0	100.00%	
			3	Rp 1,047,193.78		15	0	100.00%	
			4	Rp 1,365,832.74		4	0	100.00%	
			5	Rp 1,476,867.77		5	0	100.00%	
			6	Rp 1,197,280.43		11	0	100.00%	
			7	Rp 1,132,349.86		8	0	100.00%	
			8	Rp 1,356,982.15		5	0	100.00%	
190	3.66	7.33	1	Rp 1,007,862.62	Rp 1,181,540.19	9	0	100.00%	100.00%
			2	Rp 1,147,022.42		7	0	100.00%	
			3	Rp 901,205.50		15	0	100.00%	
			4	Rp 1,365,832.74		4	0	100.00%	
			5	Rp 1,476,867.77		5	0	100.00%	
			6	Rp 1,053,381.61		11	0	100.00%	
			7	Rp 1,143,166.71		8	0	100.00%	
			8	Rp 1,356,982.15		5	0	100.00%	

Table 4. 77 Recapitulation of AC 230 Gr 79 x 109 Periodic Review Heuristic Method (continued)

T	SS	OUL	Replication	Total Cost	Average Total Cost	Total Customer Order	Total Lost Order	SL	Average SL
210	3.85	7.9	1	Rp 1,007,862.62	Rp 1,241,807.09	9	0	100.00%	100.00%
			2	Rp 1,147,022.42		7	0	100.00%	
			3	Rp 1,339,632.62		15	0	100.00%	
			4	Rp 1,365,832.74		4	0	100.00%	
			5	Rp 1,476,867.77		5	0	100.00%	
			6	Rp 1,098,781.13		11	0	100.00%	
			7	Rp 1,141,475.25		8	0	100.00%	
			8	Rp 1,356,982.15		5	0	100.00%	
230	4.02	8.45	1	Rp 1,007,862.62	Rp 1,288,901.41	9	0	100.00%	100.00%
			2	Rp 1,293,986.73		7	0	100.00%	
			3	Rp 1,480,049.01		15	0	100.00%	
			4	Rp 1,365,832.74		4	0	100.00%	
			5	Rp 1,476,867.77		5	0	100.00%	
			6	Rp 1,197,280.43		11	0	100.00%	
			7	Rp 1,132,349.86		8	0	100.00%	
			8	Rp 1,356,982.15		5	0	100.00%	

Table 4. 78 Recapitulation of Bontak Sticker 54 x 70 Periodic Review Heuristic Method

T	SS	OUL	Replication	Total Cost	Average Total Cost	Total Customer Order	Total Lost Order	SL	Average SL
90	2.42	4.8	1	Rp 2,313,818.53	Rp 2,449,465.37	24	1	95.83%	93.86%
			2	Rp 2,268,325.51		13	1	92.31%	
			3	Rp 663,920.84		19	0	100.00%	
			4	Rp 2,058,959.36		12	1	91.67%	
			5	Rp 527,881.84		14	0	100.00%	
			6	Rp 6,863,886.14		24	4	83.33%	
110	2.67	5.57	1	Rp 942,407.80	Rp 1,836,694.13	24	0	100.00%	97.22%
			2	Rp 906,897.53		13	0	100.00%	
			3	Rp 710,659.07		19	0	100.00%	
			4	Rp 777,373.03		12	0	100.00%	
			5	Rp 617,182.10		14	0	100.00%	
			6	Rp 7,065,645.24		24	4	83.33%	
130	2.9	6.31	1	Rp 895,635.02	Rp 1,019,131.01	24	0	100.00%	99.31%
			2	Rp 835,213.81		13	0	100.00%	
			3	Rp 768,959.33		19	0	100.00%	
			4	Rp 701,907.91		12	0	100.00%	
			5	Rp 707,248.16		14	0	100.00%	
			6	Rp 2,205,821.80		24	1	95.83%	
150	3.11	7.04	1	Rp 2,492,558.59	Rp 1,595,545.55	24	1	95.83%	97.92%
			2	Rp 867,180.42		13	0	100.00%	
			3	Rp 821,248.84		19	0	100.00%	
			4	Rp 784,305.66		12	0	100.00%	
			5	Rp 790,796.33		14	0	100.00%	
			6	Rp 3,817,183.44		24	2	91.67%	
173.12	3.33	7.86	1	Rp 954,874.68	Rp 2,185,952.94	24	0	100.00%	96.53%
			2	Rp 907,873.87		13	0	100.00%	
			3	Rp 849,478.30		19	0	100.00%	
			4	Rp 1,023,660.93		12	0	100.00%	
			5	Rp 887,642.36		14	0	100.00%	
			6	Rp 8,492,187.49		24	5	79.17%	
190	3.49	8.46	1	Rp 889,259.58	Rp 903,825.52	24	0	100.00%	100.00%
			2	Rp 837,378.00		13	0	100.00%	
			3	Rp 773,999.56		19	0	100.00%	
			4	Rp 952,014.65		12	0	100.00%	
			5	Rp 962,637.29		14	0	100.00%	
			6	Rp 1,007,664.01		24	0	100.00%	
210	3.67	9.15	1	Rp 990,275.02	Rp 983,056.79	24	0	100.00%	100.00%
			2	Rp 911,630.94		13	0	100.00%	
			3	Rp 860,277.42		19	0	100.00%	
			4	Rp 1,040,225.75		12	0	100.00%	
			5	Rp 1,046,900.21		14	0	100.00%	
			6	Rp 1,049,031.37		24	0	100.00%	
230	3.84	9.84	1	Rp 1,051,362.83	Rp 1,059,535.68	24	0	100.00%	100.00%
			2	Rp 998,889.03		13	0	100.00%	
			3	Rp 936,984.35		19	0	100.00%	
			4	Rp 1,119,948.28		12	0	100.00%	
			5	Rp 1,126,561.47		14	0	100.00%	
			6	Rp 1,123,468.10		24	0	100.00%	

4.4 Holding Cost Justification

For this research, holding cost rate is adjusted to have the value of 12.3%. However, the holding cost in Indonesia could exceed the specified rate in some time future, influenced by inflation rate, bank interest rate, and several other factors. Therefore, this subchapter compares the total inventory cost with different rates of holding cost of one chosen sample. Table 4.79 recapitulates the total inventory cost of AC 360 Gr 79 x 109 with different rates of inventory holding cost.

Table 4. 79 Recapitulation of Total Inventory Cost of AC 360 Gr 79 x 109 with Different rates of Inventory Holding Cost

	Existing		s, Q System		R, s, S System	
	h = 12.3 %	h = 25%	h = 12.3 %	h = 25%	h = 12.3 %	h = 25%
Rep 1	Rp 9,295,993.25	Rp 17,261,512.13	Rp 2,816,747.01	Rp 5,589,012.39	Rp 4,212,172.75	Rp 6,954,390.42
Rep 2	Rp 8,342,275.15	Rp 15,323,069.08	Rp 2,475,655.95	Rp 4,759,682.41	Rp 2,707,171.39	Rp 5,230,240.20
	Rp 8,819,134.20	Rp 16,292,290.61	Rp 2,646,201.48	Rp 5,174,347.40	Rp 3,459,672.07	Rp 6,092,315.31
	84.74%		95.54%		76.10%	

From Table 4.79, total inventory cost ascents as the rate of inventory holding cost upsurges. Nevertheless, since the total cost is elevated for all types of inventory control systems and the increases are more or less the same – approximately 85% – then the change in holding cost rate is not sensitive for the inventory control system decision in the company.

CHAPTER V

ANALYSIS AND INTERPRETATION

This chapter includes analysis and interpretation of the results of all scenarios that conducted in the previous chapter. Several analyses regarding to raw material classification and the inventory control system decision for each sample will be carried out.

5.1 Raw Material Classification

In most companies, most of the total annual dollar usage comes from only several product types. By this mean, the behavior of each product is unique one to the others. Therefore, for the sake of warehouse management, it is essential to categorize products to apply different inventory control system for different raw material type.

There are several methods to classify raw materials; one of the methods is ABC method. In many cases, company uses ABC method to classify raw material since the calculation is utterly straightforward. As stated earlier in this paper, ABC method is based on Pareto effect, in which most annual dollar usage is from few items. One-fifth of the total item numbers contribute 80% of the total value; 30% of the total item numbers contribute 15% of the total value, while the rest half of the total item numbers contribute only 5% of the total value.

The contribution of the total annual dollar usage is dependent to two main factors – annual consumption volume and unit price. In one case, the contribution can be high even when the annual consumption volume is low. On the other hand, it is also possible for a raw material to contribute much due to high annual consumption.

Other than annual dollar usage which has been captured through ABC method, coefficient of variance (CV) is also considered for the classification. Calculating CV for each raw material would give the information of the steadiness of raw material consumption; the higher the CV value, the more fluctuated the consumption rate of the raw material is.

In this research there are 85 raw material types to be classified using ABC method. The classification is based on the annual dollar usage in 2014. Using the steps that have been stated in subchapter 2.2, it is found that 10 raw materials are categorized in A class, 8 raw materials in B class, and the rest 67 types are in C class. Referring to Table 4.1, A to C class each contributes 78.30%, 12.12%, and 9.58%, respectively.

For the company, there are 17 items that are identified as dead items. Dead item contributes nothing to total annual dollar usage. It means that the raw material is no longer used by the company, thus, dead items will not be considered for further calculation.

5.2 Inventory Control System for AC 260 Gr 79 x 109

Raw material AC 260 Gr 79 x 109 represents other items that are classified in A class with high value of CV. This raw material contributes 8.34% of the total annual dollar usage, mainly due to its high unit price; one unit of AC 260 Gr 79 x 109 has the price of Rp. 2,273,304.00.

From the simulation result, total inventory cost (horizontal) against the service level (vertical) for each inventory control system is presented in Figure 5.1. Table 5.1 recapitulates AC 260 Gr 79 x 109 all scenarios total inventory cost and service level, including the heuristic method results for continuous and periodic review inventory control systems.

Table 5. 1 AC 260 Gr 79 x 109 Total Inventory Cost and Service Level Comparison

			Total Inventory Cost		SL
Existing			Rp	41,389,082.45	100%
s, Q System	Q	ROP			
	7.5	6.55	Rp	12,665,538.53	95.19%
	10	6.55	Rp	11,830,680.31	96.44%
	11.63	6.55	Rp	11,804,900.57	96.61%
	12.5	6.55	Rp	11,863,350.62	96.61%
	15	6.55	Rp	11,285,521.99	97.31%
	17.5	6.55	Rp	11,783,400.27	96.85%
	20	6.55	Rp	11,231,332.80	98.08%
	22.5	6.55	Rp	11,876,474.16	96.85%

Table 5. 1 AC 260 Gr 79 x 109 Total Inventory Cost and Service Level Comparison (continued)

R, s, S System				Total Inventory Cost		SL
	T	SS	OUL			
	10	11.35	16.4	Rp	11,974,713.92	96.94%
	15	13.36	20.38	Rp	11,235,908.89	98.48%
	20	15.1	24.09	Rp	11,240,063.56	98.81%
	25	16.67	27.62	Rp	12,092,367.39	97.88%
	29.58	17.98	30.73	Rp	11,950,118.79	98.18%
	35	19.42	34.3	Rp	11,683,952.94	98.81%
	40	20.66	37.51	Rp	12,086,195.49	98.81%
	45	21.83	40.64	Rp	12,221,266.35	98.48%

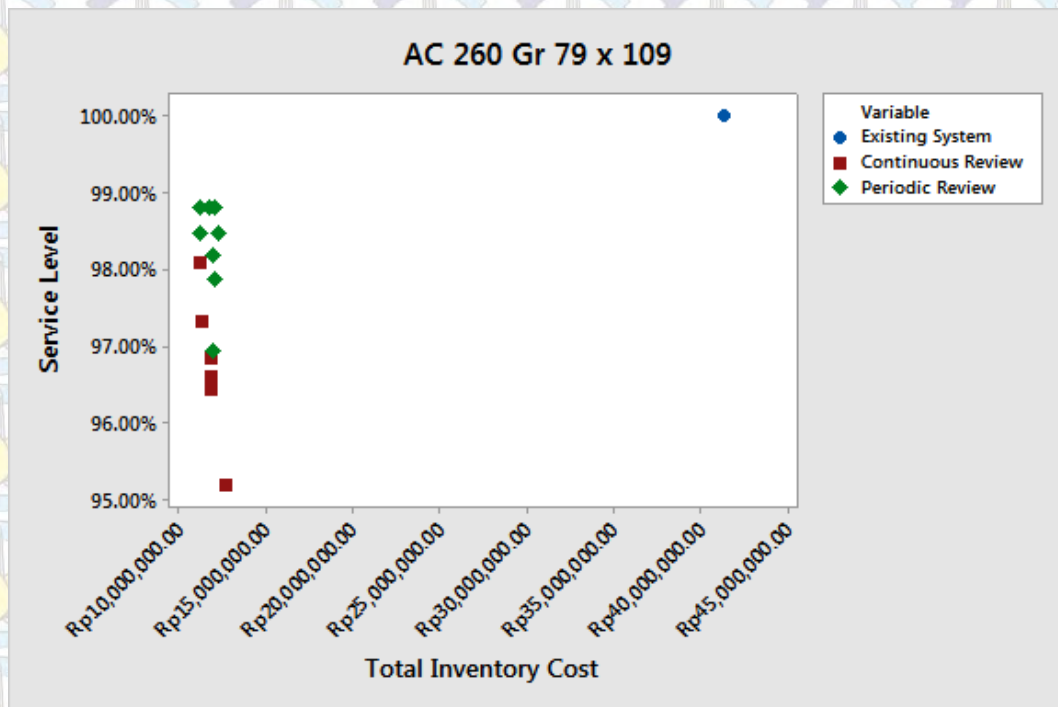


Figure 5. 1 Scatter Plot of AC 260 Gr 79 x 109 Total Inventory Cost Comparison

According to the comparison in Table 5.1, it can be interfered that total inventory cost in existing inventory control system is generally larger than total cost in both scenarios. Although continuous review inventory system result is cheaper relatively to periodic review control system, the gap between them is tiny. In fact, in heuristic method, the decision is arbitrary for several levels between continuous and periodic review inventory control system. Therefore, both reviews are actually can be applied for AC 260 Gr 79 x 109, and the rest of raw material that is categorized in A class with high value of CV.

All inventory control system AC 260 Gr 79 x 109 meet the predetermined target service level of 95%. According to Figure 5.1, periodic review inventory control system with review period of 15 days gives the best result. If the company decided to implement the recommended system over existing system inventory control system, company could save Rp. 30,153,173.56 or equal to 72.85% annually, cutting down total inventory cost from Rp. 41,389,082.45 to Rp. 11,235,908.89.

5.3 Inventory Control System for DC 400 Gr 79 x 109

Raw material DC 400 Gr 79 x 109 represents other items that are classified in A class with low value of CV. This raw material contributes 28.44 % of the total annual dollar usage, the biggest contributor among all raw material types. Compared to AC 260 Gr 79x 109, this raw material is far cheaper with unit price only worth of Rp. 1,222,500.00. However, in terms of annual consumption volume, DC 400 Gr 79 x 109 dominates with 622.67 units compared to only 143.55 units for AC 260 Gr 79x 109.

From the simulation result, total inventory cost as well as the service level for each inventory control system can be compared in Figure 5.2. Table 5.2 recapitulates DC 400 Gr 79 x 109 all scenarios total inventory cost and service level, including the heuristic method results for continuous and periodic review inventory control systems.

Table 5. 2 DC 400 Gr 79 x 109 Total Inventory Cost and Service Level Comparison

Existing			Total Inventory Cost	SL
			Rp 13,839,089.44	96.92%
s, Q System	Q	ROP		
	27.5	25.63	Rp 11,322,997.37	96.95%
	30	25.63	Rp 10,073,851.53	97.86%
	32.3	25.63	Rp 9,080,469.61	98.65%
	35	25.63	Rp 9,250,550.16	98.70%
	37.5	25.63	Rp 8,346,369.38	99.29%
	40	25.63	Rp 10,194,867.52	97.86%
	42.5	25.63	Rp 8,153,223.49	99.49%
	45	25.63	Rp 9,257,419.96	98.88%

Table 5. 2 DC 400 Gr 79 x 109 Total Inventory Cost and Service Level Comparison (continued)

	T	SS	OUL	Total Inventory Cost	SL
R, s, S System	5	21.48	39.18	Rp 14,405,102.33	93.91%
	10	25.77	51.62	Rp 13,503,057.58	94.74%
	15	29.44	63.44	Rp 16,332,204.65	93.07%
	19.81	32.58	74.42	Rp 15,523,506.45	93.87%
	25	35.66	85.97	Rp 15,600,869.20	94.22%
	30	38.4	96.86	Rp 17,004,929.28	93.66%
	35	40.95	107.6	Rp 17,534,902.35	93.57%
	40	43.36	118.1	Rp 18,554,967.70	93.52%

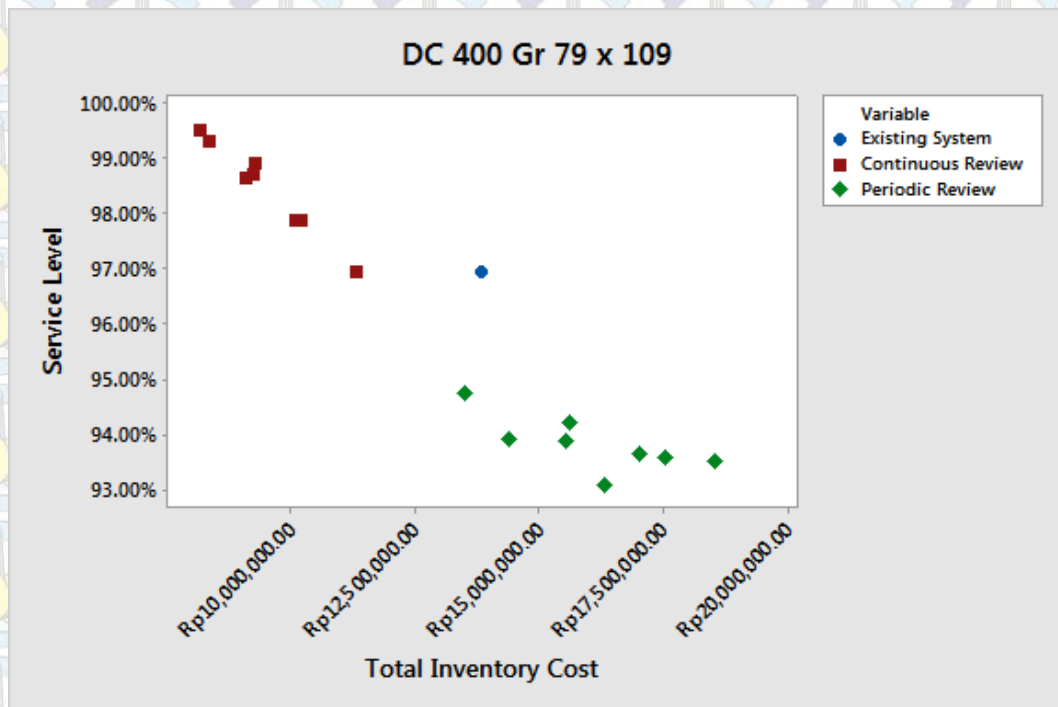


Figure 5. 2 Scatter Plot of DC 400 Gr 79 x 109 Total Inventory Cost Comparison

Different from the previous comparison for raw materials categorized in A class with high value of CV, in Table 5.2, periodic review inventory control system typically does not give better result compared to the existing system. In terms of total inventory cost, it is more expensive; in terms of service level, it results worse and even cannot fulfill specified service level target by the company (95%). By this mean, periodic review inventory control system is not recommended for DC 400 Gr 79 x 109, and the other A class raw materials with low CV value. On the other hand, continuous review inventory control system

shows better result both in total inventory cost and service level hence the recommendation of applying this system for the corresponding raw material type.

When the company decides to replace existing system with continuous review inventory control system (Q equals to 37.5 units), company could save Rp. 5,492,720.06 or equal to 39.69%, cutting down total inventory cost from Rp. 13,839,089.44 to Rp. 8,346,369.38.

5.4 Inventory Control System for DC 250 Gr 89 x 120

Raw material DC 250 Gr 89 x 120 represents other raw materials classified in B class with high value of CV. This raw material contributes 1.56% of the total annual dollar usage, with unit price of Rp. 994,000.00.

From the simulation result, total inventory cost (horizontal) against the service level (vertical) for each inventory control system is presented in Figure 5.3. Table 5.3 recapitulates DC 250 Gr 89 x 120 all scenarios total inventory cost and service level, including the heuristic method results for continuous and periodic review inventory control systems.

Table 5. 3 DC 250 Gr 79 x 109 Total Inventory Cost and Service Level Comparison

Existing				Total Inventory Cost		SL
				Rp	8,178,384.42	100%
s, Q System				Q	ROP	
				4	3.61	Rp 4,941,653.21 94.21%
				6	3.61	Rp 4,771,013.53 95.11%
				8	3.61	Rp 4,544,029.13 95.24%
				9.56	3.61	Rp 4,721,966.66 94.76%
				12	3.61	Rp 4,786,273.67 95.11%
				14	3.61	Rp 4,293,710.49 96.68%
				16	3.61	Rp 4,277,787.49 96.61%
				18	3.61	Rp 4,139,402.19 97.16%
R, s, S System				T	SS	OUL
				50	11.05	17.36 Rp 3,973,658.04 97.77%
				60	12.02	19.49 Rp 4,396,723.92 95.76%
				70	12.92	21.56 Rp 4,471,118.50 96.97%
				82.26	13.95	24.01 Rp 3,515,307.67 99.52%
				90	14.55	25.52 Rp 4,232,556.54 97.38%
				100	15.31	27.43 Rp 4,573,504.80 96.97%
				110	16.02	29.31 Rp 4,748,707.89 96.48%
				120	16.71	31.16 Rp 4,801,699.66 95.92%

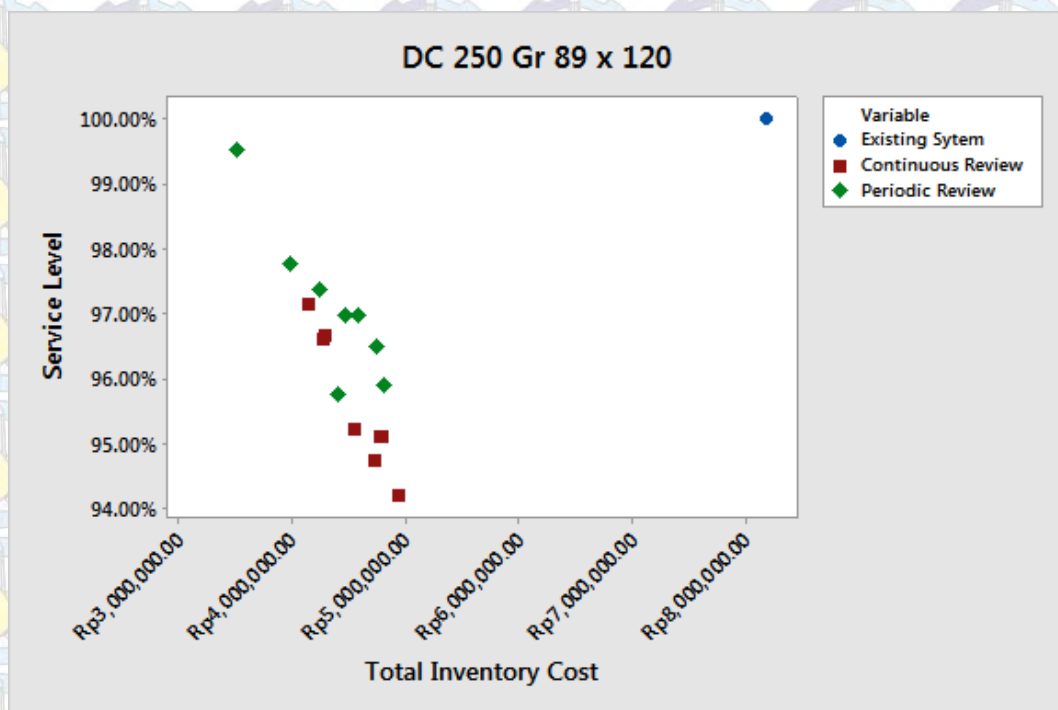


Figure 5. 3 Scatter Plot of DC 250 Gr 89 x 120 Total Inventory Cost Comparison

From Table 5.3, in general, it can be interfered that periodic review inventory control system is more suitable for managing DC 250 Gr 89 x 120, and other raw materials in B class with high value of CV. Even so, continuous review inventory control system is also able to improve the existing system.

With input parameters obtained from calculation using Equation 2.7 to 2.10 in subchapter 2.5.2, periodic review inventory control system application can reduce total inventory cost worth of Rp. 4,663,076.75 or equal to 57.02%, lessen the cost from Rp. 8,178,384.42 to Rp. 3,515,307.67.

5.5 Inventory Control System for AC 360 Gr 79 x109

Raw material AC 360 Gr 79 x 109 represents other raw materials classified in B class with low value of CV. This raw material contributes 1.63% of the total annual dollar usage. Compared to DC 250 Gr 89 x 120, this raw material has higher unit price, worth of Rp. 2,092,000.00. The contribution has only a slight difference due to huge gap annual consumption volume between these two raw materials – only 22.22 units of this material are used, while 43.14 units consumed for DC 250 Gr 89 x 120.

From the simulation result, total inventory cost as well as the service level for each inventory control system can be compared in Figure 5.4. Table 5.4 recapitulates AC 360 Gr 79 x 109 all scenarios total inventory cost and service level, including the heuristic method results for continuous and periodic review inventory control systems.

Table 5. 4 AC 360 Gr 79 x 109 Total Inventory Cost and Service Level Comparison

Existing				Total Inventory Cost	SL
				Rp 8,819,134.20	100%
s, Q System	Q	ROP			
	2	1.19		Rp 3,415,617.29	98.57%
	3	1.19		Rp 3,356,779.95	98.57%
	4	1.19		Rp 2,627,505.41	100%
	4.77	1.19		Rp 2,646,201.48	100%
	6	1.19		Rp 3,339,536.43	98.57%
	7	1.19		Rp 2,591,227.43	100%
	8	1.19		Rp 2,637,756.11	100%
	9	1.19		Rp 2,670,537.68	100%
R, s, S System	T	SS	OUL		
	50	3.37	6.66	Rp 3,379,646.27	97.73%
	60	3.67	7.57	Rp 3,404,013.90	97.73%
	70	3.94	8.45	Rp 4,105,385.62	96.30%
	78.36	4.16	9.18	Rp 3,459,672.07	97.73%
	90	4.44	10.17	Rp 4,140,550.02	96.30%
	100	4.67	11.01	Rp 3,596,593.29	97.73%
	110	4.89	6.94	Rp 2,781,649.58	100%
	120	5.1	12.66	Rp 3,439,647.40	97.73%

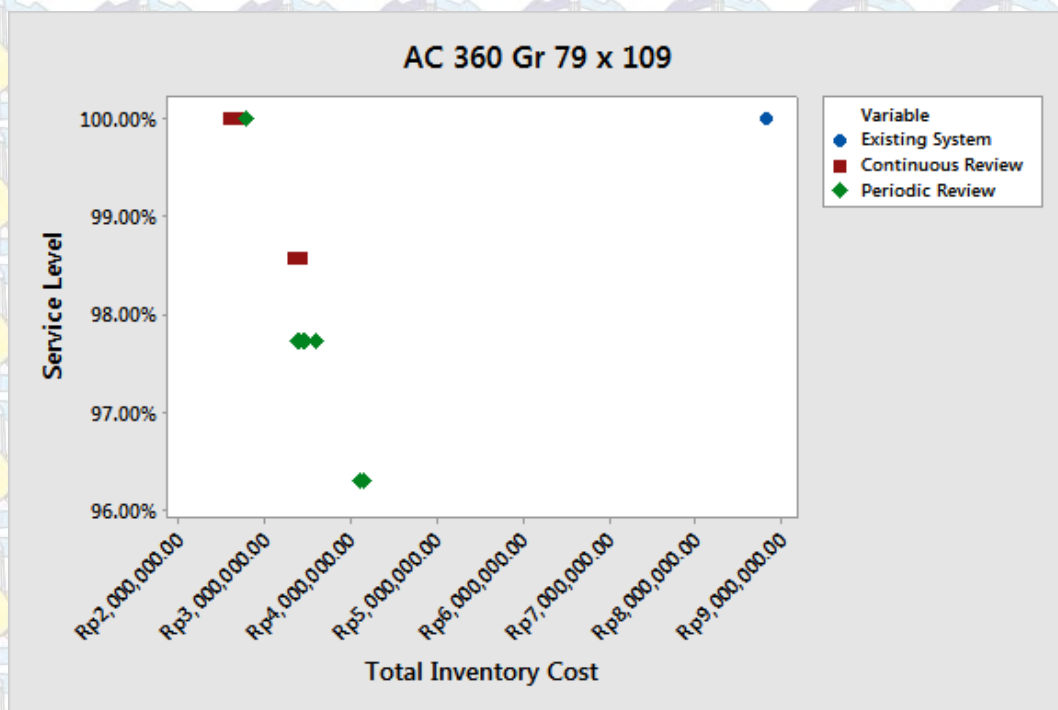


Figure 5. 4 Scatter Plot of AC 360 Gr 79 x 109 Total Inventory Cost Comparison

By looking at Table 5.4, it could be interfered that although periodic review inventory control system is also able to improve the existing system, generally continuous review inventory control system suits better to manage AC 360 Gr 79 x 109, and other raw materials in B class with low value of CV.

A point in Figure 5.4 which is not dominated by any other plots is continuous review inventory control system with the order size of 7 units. This continuous review inventory control system plot can reduce total inventory cost up to Rp. 6,227,906.77 or equal to 70.62%, from Rp. 8,819,134.20 to Rp. 2,591,227.43.

5.6 Inventory Control System for AC 230 Gr 79 x 109

Raw material AC 230 Gr 79 x 109 represents other raw materials categorized in least significant class, C class, with high value of CV. This raw material contributes no more than 0.37% of the total annual dollar usage. Although the unit price is not that cheap, at the rate of Rp. 1,406,000.00, the usage of this material is extremely low and lead to small contribution to total annual dollar usage.

From the simulation result, total inventory cost (horizontal) against the service level (vertical) for each inventory control system is presented in Figure 5.5. Table 5.5 recapitulates AC 230 Gr 79 x 109 all scenarios total inventory cost and service level, including the heuristic method results for continuous and periodic review inventory control systems.

Table 5. 5 AC 230 Gr 79 x 109 Total Inventory Cost and Service Level Comparison

				Total Inventory Cost		SL	
Existing				Rp 2,997,677.47		100%	
s, Q System		Q	ROP				
		1	0.49	Rp 1,306,954.62		98.86%	
		2	0.49	Rp 1,311,337.27		98.86%	
		3	0.49	Rp 1,315,660.69		98.86%	
		3.25	0.49	Rp 1,316,549.07		98.86%	
		4	0.49	Rp 1,320,221.02		98.86%	
		5	0.49	Rp 1,324,307.54		98.86%	
		6	0.49	Rp 1,328,275.62		98.86%	
		7	0.49	Rp 1,332,954.39		98.86%	
R, s, S System	T	SS	OUL				
	90	2.54	4.31	Rp 1,160,517.81		100%	
	110	2.8	4.95	Rp 1,186,546.27		100%	
	130	3.04	5.57	Rp 1,371,935.23		98.86%	
	150	3.26	6.17	Rp 1,219,301.71		100%	
	170.9	3.47	6.78	Rp 1,253,077.99		100%	
	190	3.66	7.33	Rp 1,181,540.19		100%	
	210	3.85	7.9	Rp 1,241,807.09		100%	
	230	4.02	8.45	Rp 1,288,901.41		100%	

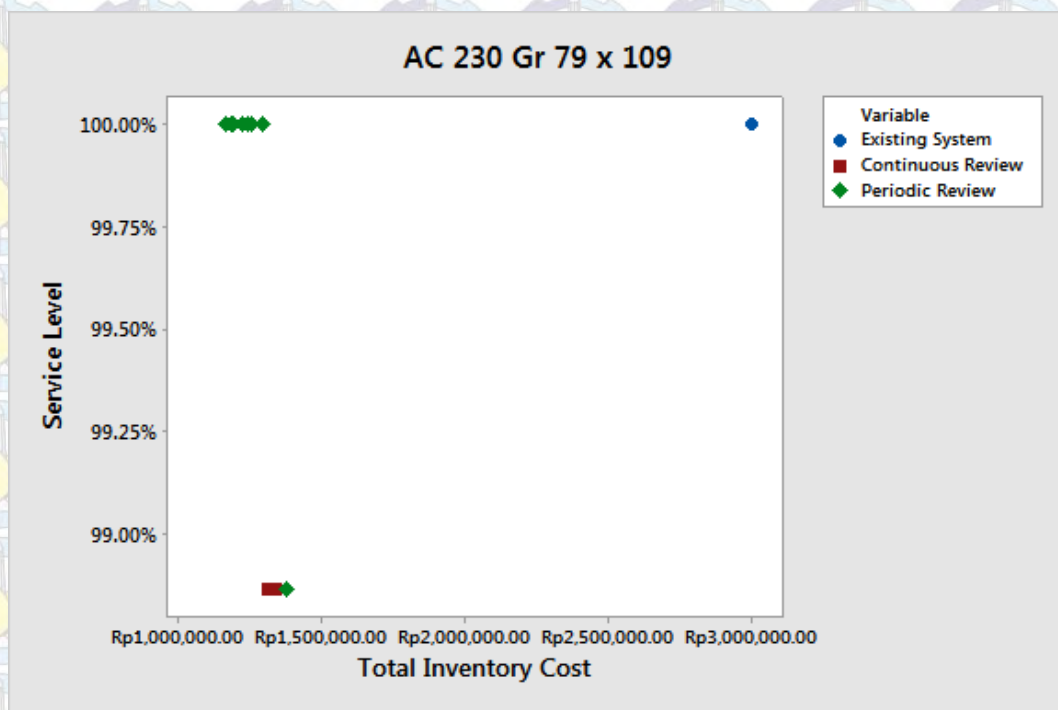


Figure 5. 5 Scatter Plot of AC 230 Gr 79 x 109 Total Inventory Cost Comparison

According to the comparison in Table 5.5, it can be identified that total inventory cost in existing inventory control system is typically larger than total cost in both scenarios, although all orders could be fulfilled. Periodic review inventory system gives relatively cheaper total inventory cost result than continuous review control. Also, in terms of service level, applying periodic review inventory control system outcomes better performance.

When the decision comes to apply periodic review inventory control system with 90 days of review period, company could save Rp. 1,837,159.66 or equal to 61.29% per year, cutting down total inventory cost from Rp. 2,997,677.47.

5.7 Inventory Control System for Bontak Sticker 54 x 70

Raw material Bontak Sticker 54 x 70 represents raw materials categorized in C class, with low value of CV. Similar to AC 230 Gr 79 x 109, this raw material contributes 0.37% of the total annual dollar usage. The price of this raw material is Rp. 1,010,000.00 per unit with the total annual consumption of 9.43

units, approximately one a half fold compared to the consumption of AC 230 Gr 79 x 109.

From the simulation result, total inventory cost as well as the service level for each inventory control system can be compared in Figure 5.6. Table 5.6 recapitulates Bontak Sticker 54 x 70 all scenarios total inventory cost and service level, including the heuristic method results for continuous and periodic review inventory control systems.

Table 5. 6 Bontak Sticker 54 x 70 Total Inventory Cost and Service Level Comparison

				Total Inventory Cost	SL
Existing				Rp 3,322,948.53	92.39%
s, Q System	Q	ROP			
	1	0.43		Rp 5,000,816.85	84.13%
	2	0.43		Rp 3,139,406.62	91.41%
	3	0.43		Rp 3,603,056.72	90.35%
	4	0.43		Rp 3,058,594.93	91.92%
	4.47	0.43		Rp 1,560,476.82	97.22%
	5	0.43		Rp 1,846,127.14	96.35%
	6	0.43		Rp 2,394,384.75	94.55%
	7	0.43		Rp 1,913,325.38	96.53%
R, s, S System	T	SS	OUL		
	90	2.42	4.8	Rp 2,449,465.37	93.86%
	110	2.67	5.57	Rp 1,836,694.13	97.22%
	130	2.9	6.31	Rp 1,019,131.01	99.31%
	150	3.11	7.04	Rp 1,595,545.55	97.92%
	173.12	3.33	7.86	Rp 2,185,952.94	96.53%
	190	3.49	8.46	Rp 903,825.52	100%
	210	3.67	9.15	Rp 983,056.79	100%
	230	3.84	9.84	Rp 1,059,535.68	100%

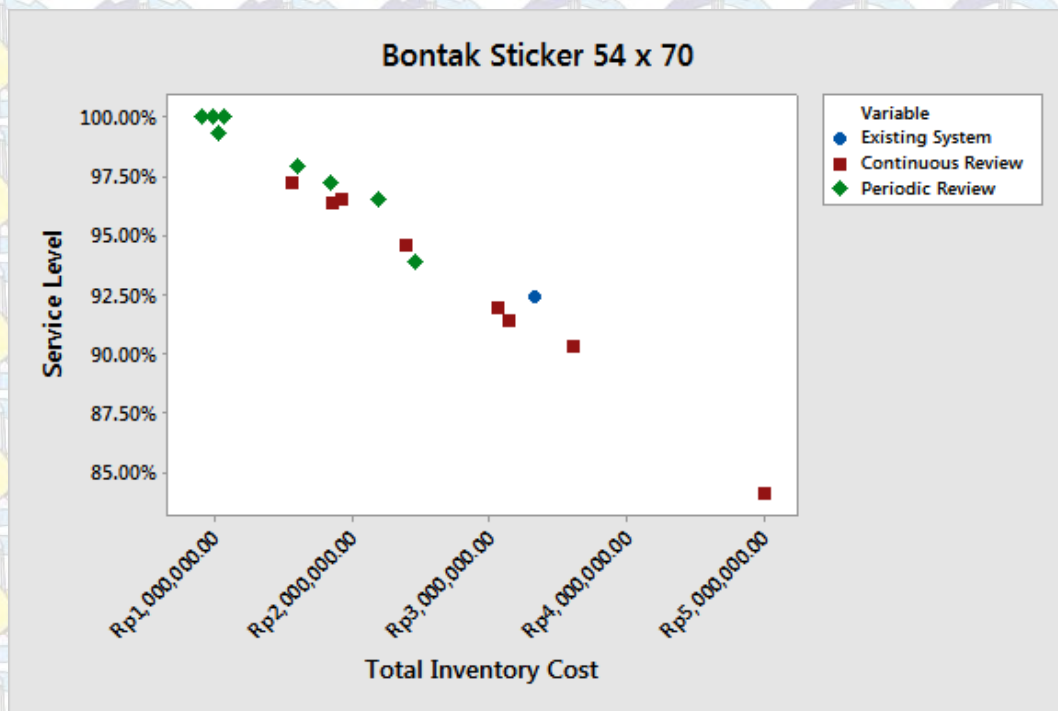


Figure 5. 6 Scatter Plot of Bontak Sticker 54 x 70 Total Inventory Cost Comparison

Comparison in Table 5.6 shows that continuous review inventory control system does not give better result compared to periodic review system in general. It burdens the company with higher total inventory cost and lower service level – the service level even cannot fulfill specified service level target by the company (95%). By this mean, continuous review inventory control system is not recommended for Bontak Sticker 54 x 70, and the other C class raw materials with low *CV* value. On the other hand, periodic review inventory control system is recommended since it shows lower total inventory cost compared to the existing system.

With the review period of 190 days, periodic review inventory control system application can reduce total inventory cost worth of Rp. 2,419,123.01 or equal to 72.8 %, lessen the cost from Rp. 3,322,948.53 to Rp. 903,825.52.

5.8 Inventory Cost Reduction and Service Level Comparison

After choosing each inventory control system for each raw material category, then each cost reduction and service level comparison is carried out.

Table 5.7 summarizes the total inventory cost reduction and compares service level in each raw material category.

Table 5. 7 Recapitulation of Inventory Cost Reduction and Service Level Comparison

Class	CV	Inventory Control System Chosen	Total Inventory Cost Reduction	Service Level	
				Existing	Recommendation
A	High	Periodic	72.85%	100%	98.48%
	Low	Continuous	39.69%	96.92%	99.29%
B	High	Periodic	57.02%	100%	99.52%
	Low	Continuous	70.62%	100%	100%
C	High	Periodic	61.29%	100%	100%
	Low	Periodic	72.80%	92.39%	100%

On the report of Table 5.7, all raw material categories are improved significantly in terms of total inventory cost. Except for A class and B class with high CV value, the service level is also enhanced, or at least the same. However, the decrease in service level is not sensitive to the decision since it is still above the specified target service level of 95%.

In existing condition, total inventory cost is frantically high due to two main factors. The first factor is that the company has no specification on when and how many units the raw materials have to be purchased; it suffers the company for stocking too much raw materials in some specific time, while losing orders in the others. The second factor is that the company has a tendency not to consider holding cost as one of the inventory cost elements. Consequently, company overestimates the order size, which leads to high holding cost, as a result of great volume of inventory on hand.

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CHAPTER VI

CONCLUSION AND RECOMMENDATION

This chapter concludes the whole research and contains recommendations for further researches as well as for the company.

6.1 Conclusion

After conducting this research, several conclusions to present are:

1. The scenarios generated in this research have been able to evaluate several possible inventory control system method and recommend the most efficient inventory control system for each raw material category. Continuous review inventory control system is chosen for A class raw materials with low CV value and B class raw materials with low CV value, while periodic review inventory control system is chosen for A class raw materials with high CV value, B class raw materials with high CV value, and all C class raw materials.
2. Other than total inventory cost reduction, service level is also considered in this study. When different proposed inventory control system is applied to the category, new service level is obtained. For A class raw materials with high CV value, the cost is reduced by 72.85% with the service level of 98.48%; For A class raw materials with low CV value, the cost is reduced by 39.69% with the service level of 99.29%; For B class raw materials with high CV value, the cost is reduced by 57.02% with the service level of 99.52%; For B class raw materials with low CV value, the cost is reduced by 70.62% with the service level of 100%; For C class raw materials with high CV value, the cost is reduced by 61.29% with the service level of 100%; For C class raw materials with low CV value, the cost is reduced by 72.8% with the service level of 100%. All the chosen inventory control system service levels exceed 95% so that it can fulfill the target service level specified by the company.

6.2 Recommendation

For future research, it is prudent from this research to:

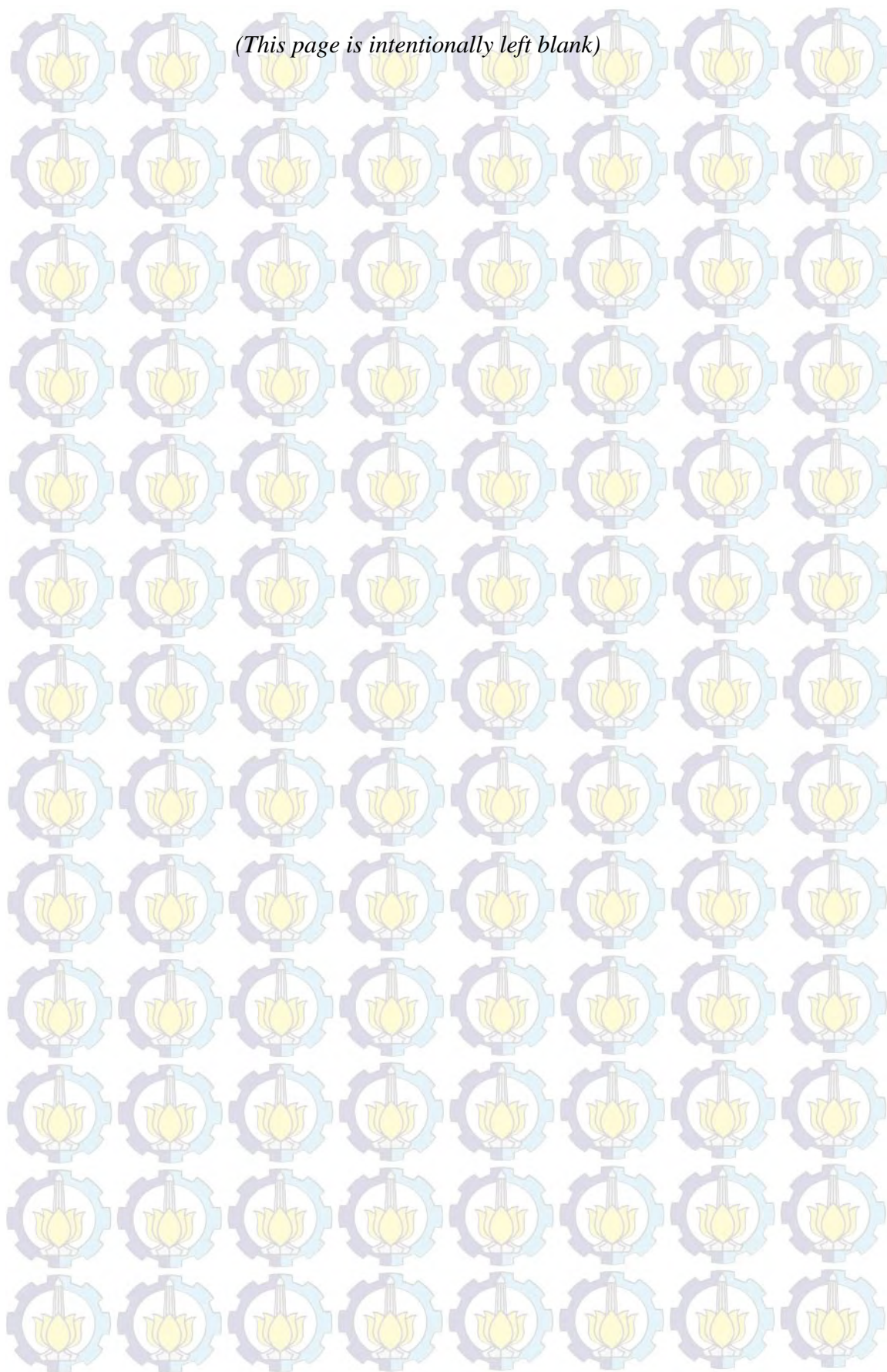
1. Build the Decision Supporting System so that it could be easily used for the company when they are willing to use new raw material type in the business.
2. Evaluate continuous review heuristic method in terms of both reorder point and order size.
3. Extend the heuristic method for both continuous and periodic review inventory control system, hence exact global optimum solution can be obtained.

APPENDIX A

ORDER COST BREAKDOWN AND CALCULATION

Month	Electricity Bill	Telephone Bill	Equipment and Utilities Expense	Labor Cost	Total	Number of Order
January	Rp 469,868.00	Rp 624,720.00	Rp 798,400.00	Rp 4,500,000.00	Rp 6,392,988.00	61
February	Rp 517,340.00	Rp 978,920.00	Rp 2,126,400.00	Rp 4,500,000.00	Rp 8,122,660.00	61
March	Rp 442,484.00	Rp 935,120.00	Rp 1,295,650.00	Rp 4,500,000.00	Rp 7,173,254.00	81
April	Rp 607,920.00	Rp 935,120.00	Rp 1,025,000.00	Rp 4,500,000.00	Rp 7,068,040.00	59
May	Rp 505,960.00	Rp 1,370,560.00	Rp 410,500.00	Rp 4,500,000.00	Rp 6,787,020.00	43
June	Rp 427,980.00	Rp 941,600.00	Rp 830,550.00	Rp 4,500,000.00	Rp 6,700,130.00	55
July	Rp 484,808.00	Rp 939,600.00	Rp 295,700.00	Rp 4,500,000.00	Rp 6,220,108.00	39
August	Rp 422,184.00	Rp 983,440.00	Rp 709,500.00	Rp 4,500,000.00	Rp 6,615,124.00	37
September	Rp 342,632.00	Rp 939,600.00	Rp 377,850.00	Rp 4,500,000.00	Rp 6,160,082.00	45
October	Rp 439,388.00	Rp 983,440.00	Rp 598,000.00	Rp 4,500,000.00	Rp 6,520,828.00	57
November	Rp 385,372.00	Rp 939,600.00	Rp 635,250.00	Rp 4,500,000.00	Rp 6,460,222.00	28
December	Rp 311,532.00	Rp 939,600.00	Rp 542,500.00	Rp 4,500,000.00	Rp 6,293,632.00	45
					Rp 80,514,088.00	611
Order Cost						Rp 131,774.28

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APPENDIX B

EXISTING SYSTEM REPLICATION (AC 260 Gr 79 x 109)

Replication1

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
3-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
4-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
5-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
6-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
7-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
8-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
9-Jan-15			9.84	74.91			Rp 57,386.30	Rp 57,386.30
10-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
11-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
12-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
13-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
14-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
15-Jan-15	10.9		0	74.91	Rp 131,774.28		Rp 57,386.30	Rp 189,160.58
16-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
17-Jan-15		10.9	0	85.81			Rp 65,736.47	Rp 65,736.47
18-Jan-15			0	85.81			Rp 65,736.47	Rp 65,736.47
19-Jan-15			0	85.81			Rp 65,736.47	Rp 65,736.47
20-Jan-15			0	85.81			Rp 65,736.47	Rp 65,736.47
21-Jan-15			0	85.81			Rp 65,736.47	Rp 65,736.47
22-Jan-15			0	85.81			Rp 65,736.47	Rp 65,736.47
23-Jan-15			0	85.81			Rp 65,736.47	Rp 65,736.47
24-Jan-15			0	85.81			Rp 65,736.47	Rp 65,736.47
25-Jan-15			0	85.81			Rp 65,736.47	Rp 65,736.47
26-Jan-15			0.89	84.92			Rp 65,054.66	Rp 65,054.66
27-Jan-15			0	84.92			Rp 65,054.66	Rp 65,054.66
28-Jan-15			0	84.92			Rp 65,054.66	Rp 65,054.66
29-Jan-15			0	84.92			Rp 65,054.66	Rp 65,054.66
30-Jan-15			0	84.92			Rp 65,054.66	Rp 65,054.66
31-Jan-15	10.9		0	84.92	Rp 131,774.28		Rp 65,054.66	Rp 196,828.94
1-Feb-15			0	84.92			Rp 65,054.66	Rp 65,054.66
2-Feb-15		10.9	0	95.82			Rp 73,404.83	Rp 73,404.83
3-Feb-15			0	95.82			Rp 73,404.83	Rp 73,404.83
4-Feb-15			1.85	93.97			Rp 71,987.60	Rp 71,987.60
5-Feb-15			0	93.97			Rp 71,987.60	Rp 71,987.60
6-Feb-15			0	93.97			Rp 71,987.60	Rp 71,987.60
7-Feb-15			0	93.97			Rp 71,987.60	Rp 71,987.60
8-Feb-15			0	93.97			Rp 71,987.60	Rp 71,987.60
9-Feb-15			0	93.97			Rp 71,987.60	Rp 71,987.60
10-Feb-15			0	93.97			Rp 71,987.60	Rp 71,987.60
11-Feb-15			0	93.97			Rp 71,987.60	Rp 71,987.60
12-Feb-15			0	93.97			Rp 71,987.60	Rp 71,987.60
13-Feb-15			0	93.97			Rp 71,987.60	Rp 71,987.60
14-Feb-15			0	93.97			Rp 71,987.60	Rp 71,987.60
15-Feb-15	10.9		0.29	93.68	Rp 131,774.28		Rp 71,765.44	Rp 203,539.72
16-Feb-15			0	93.68			Rp 71,765.44	Rp 71,765.44
17-Feb-15		10.9	0	104.58			Rp 80,115.60	Rp 80,115.60
18-Feb-15			0	104.58			Rp 80,115.60	Rp 80,115.60
19-Feb-15			0	104.58			Rp 80,115.60	Rp 80,115.60
20-Feb-15			0	104.58			Rp 80,115.60	Rp 80,115.60
21-Feb-15			0	104.58			Rp 80,115.60	Rp 80,115.60
22-Feb-15			0	104.58			Rp 80,115.60	Rp 80,115.60
23-Feb-15			0	104.58			Rp 80,115.60	Rp 80,115.60
24-Feb-15			16.29	88.29			Rp 67,636.32	Rp 67,636.32
25-Feb-15			0	88.29			Rp 67,636.32	Rp 67,636.32
26-Feb-15			0	88.29			Rp 67,636.32	Rp 67,636.32
27-Feb-15			0	88.29			Rp 67,636.32	Rp 67,636.32
28-Feb-15	10.9		0	88.29	Rp 131,774.28		Rp 67,636.32	Rp 199,410.60
1-Mar-15			0	88.29			Rp 67,636.32	Rp 67,636.32
2-Mar-15		10.9	0	99.19			Rp 75,986.48	Rp 75,986.48
3-Mar-15			0	99.19			Rp 75,986.48	Rp 75,986.48

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
4-Mar-15			0	99.19			Rp 75,986.48	Rp 75,986.48
5-Mar-15			0	99.19			Rp 75,986.48	Rp 75,986.48
6-Mar-15			0	99.19			Rp 75,986.48	Rp 75,986.48
7-Mar-15			0	99.19			Rp 75,986.48	Rp 75,986.48
8-Mar-15			0	99.19			Rp 75,986.48	Rp 75,986.48
9-Mar-15			7.74	91.45			Rp 70,057.10	Rp 70,057.10
10-Mar-15			0	91.45			Rp 70,057.10	Rp 70,057.10
11-Mar-15			2.32	89.13			Rp 68,279.82	Rp 68,279.82
12-Mar-15			0	89.13			Rp 68,279.82	Rp 68,279.82
13-Mar-15			0	89.13			Rp 68,279.82	Rp 68,279.82
14-Mar-15			0	89.13			Rp 68,279.82	Rp 68,279.82
15-Mar-15	10.9		0	89.13	Rp 131,774.28		Rp 68,279.82	Rp 200,054.10
16-Mar-15			0	89.13			Rp 68,279.82	Rp 68,279.82
17-Mar-15			0	89.13			Rp 68,279.82	Rp 68,279.82
18-Mar-15		10.9	0	100.03			Rp 76,629.98	Rp 76,629.98
19-Mar-15			0	100.03			Rp 76,629.98	Rp 76,629.98
20-Mar-15			0	100.03			Rp 76,629.98	Rp 76,629.98
21-Mar-15			0	100.03			Rp 76,629.98	Rp 76,629.98
22-Mar-15			0	100.03			Rp 76,629.98	Rp 76,629.98
23-Mar-15			0	100.03			Rp 76,629.98	Rp 76,629.98
24-Mar-15			0	100.03			Rp 76,629.98	Rp 76,629.98
25-Mar-15			0	100.03			Rp 76,629.98	Rp 76,629.98
26-Mar-15			0	100.03			Rp 76,629.98	Rp 76,629.98
27-Mar-15			0	100.03			Rp 76,629.98	Rp 76,629.98
28-Mar-15			0	100.03			Rp 76,629.98	Rp 76,629.98
29-Mar-15			4.82	95.21			Rp 72,937.52	Rp 72,937.52
30-Mar-15			2.06	93.15			Rp 71,359.42	Rp 71,359.42
31-Mar-15	10.9		0	93.15	Rp 131,774.28		Rp 71,359.42	Rp 203,133.70
1-Apr-15			0	93.15			Rp 71,359.42	Rp 71,359.42
2-Apr-15		10.9	0	104.05			Rp 79,709.58	Rp 79,709.58
3-Apr-15			0	104.05			Rp 79,709.58	Rp 79,709.58
4-Apr-15			0	104.05			Rp 79,709.58	Rp 79,709.58
5-Apr-15			0	104.05			Rp 79,709.58	Rp 79,709.58
6-Apr-15			0	104.05			Rp 79,709.58	Rp 79,709.58
7-Apr-15			0	104.05			Rp 79,709.58	Rp 79,709.58
8-Apr-15			0	104.05			Rp 79,709.58	Rp 79,709.58
9-Apr-15			0	104.05			Rp 79,709.58	Rp 79,709.58
10-Apr-15			0	104.05			Rp 79,709.58	Rp 79,709.58
11-Apr-15			0	104.05			Rp 79,709.58	Rp 79,709.58
12-Apr-15			2.91	101.14			Rp 77,480.32	Rp 77,480.32
13-Apr-15			0	101.14			Rp 77,480.32	Rp 77,480.32
14-Apr-15			0	101.14			Rp 77,480.32	Rp 77,480.32
15-Apr-15	10.9		0	101.14	Rp 131,774.28		Rp 77,480.32	Rp 209,254.60
16-Apr-15			0	101.14			Rp 77,480.32	Rp 77,480.32
17-Apr-15		10.9	0	112.04			Rp 85,830.48	Rp 85,830.48
18-Apr-15			0	112.04			Rp 85,830.48	Rp 85,830.48
19-Apr-15			0	112.04			Rp 85,830.48	Rp 85,830.48
20-Apr-15			0	112.04			Rp 85,830.48	Rp 85,830.48
21-Apr-15			0	112.04			Rp 85,830.48	Rp 85,830.48
22-Apr-15			0	112.04			Rp 85,830.48	Rp 85,830.48
23-Apr-15			0	112.04			Rp 85,830.48	Rp 85,830.48
24-Apr-15			0	112.04			Rp 85,830.48	Rp 85,830.48
25-Apr-15			0	112.04			Rp 85,830.48	Rp 85,830.48
26-Apr-15			0	112.04			Rp 85,830.48	Rp 85,830.48
27-Apr-15			0	112.04			Rp 85,830.48	Rp 85,830.48
28-Apr-15			0	112.04			Rp 85,830.48	Rp 85,830.48
29-Apr-15			0	112.04			Rp 85,830.48	Rp 85,830.48
30-Apr-15	10.9		0	112.04	Rp 131,774.28		Rp 85,830.48	Rp 217,604.76
1-May-15			0	112.04			Rp 85,830.48	Rp 85,830.48
2-May-15		10.9	0	122.94			Rp 94,180.65	Rp 94,180.65
3-May-15			0	122.94			Rp 94,180.65	Rp 94,180.65
4-May-15			0.61	122.33			Rp 93,713.34	Rp 93,713.34
5-May-15			0	122.33			Rp 93,713.34	Rp 93,713.34
6-May-15			0	122.33			Rp 93,713.34	Rp 93,713.34
7-May-15			17.57	104.76			Rp 80,253.49	Rp 80,253.49
8-May-15			0	104.76			Rp 80,253.49	Rp 80,253.49
9-May-15			0	104.76			Rp 80,253.49	Rp 80,253.49
10-May-15			0	104.76			Rp 80,253.49	Rp 80,253.49
11-May-15			0	104.76			Rp 80,253.49	Rp 80,253.49
12-May-15			0	104.76			Rp 80,253.49	Rp 80,253.49
13-May-15			0	104.76			Rp 80,253.49	Rp 80,253.49
14-May-15			0	104.76			Rp 80,253.49	Rp 80,253.49
15-May-15	10.9		0	104.76	Rp 131,774.28		Rp 80,253.49	Rp 212,027.77

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
16-May-15			0	104.76			Rp 80,253.49	Rp 80,253.49
17-May-15			0	104.76			Rp 80,253.49	Rp 80,253.49
18-May-15			0	104.76			Rp 80,253.49	Rp 80,253.49
19-May-15		10.9	0	115.66			Rp 88,603.66	Rp 88,603.66
20-May-15			0	115.66			Rp 88,603.66	Rp 88,603.66
21-May-15			0	115.66			Rp 88,603.66	Rp 88,603.66
22-May-15			0	115.66			Rp 88,603.66	Rp 88,603.66
23-May-15			0	115.66			Rp 88,603.66	Rp 88,603.66
24-May-15			0	115.66			Rp 88,603.66	Rp 88,603.66
25-May-15			0	115.66			Rp 88,603.66	Rp 88,603.66
26-May-15			3.61	112.05			Rp 85,838.14	Rp 85,838.14
27-May-15			0	112.05			Rp 85,838.14	Rp 85,838.14
28-May-15			0	112.05			Rp 85,838.14	Rp 85,838.14
29-May-15			0	112.05			Rp 85,838.14	Rp 85,838.14
30-May-15			0	112.05			Rp 85,838.14	Rp 85,838.14
31-May-15	10.9		0	112.05	Rp 131,774.28		Rp 85,838.14	Rp 217,612.42
1-Jun-15			0	112.05			Rp 85,838.14	Rp 85,838.14
2-Jun-15		10.9	0	122.95			Rp 94,188.31	Rp 94,188.31
3-Jun-15			0	122.95			Rp 94,188.31	Rp 94,188.31
4-Jun-15			1	121.95			Rp 93,422.24	Rp 93,422.24
5-Jun-15			0	121.95			Rp 93,422.24	Rp 93,422.24
6-Jun-15			0	121.95			Rp 93,422.24	Rp 93,422.24
7-Jun-15			0	121.95			Rp 93,422.24	Rp 93,422.24
8-Jun-15			0	121.95			Rp 93,422.24	Rp 93,422.24
9-Jun-15			0	121.95			Rp 93,422.24	Rp 93,422.24
10-Jun-15			8.07	113.88			Rp 87,240.05	Rp 87,240.05
11-Jun-15			0	113.88			Rp 87,240.05	Rp 87,240.05
12-Jun-15			0	113.88			Rp 87,240.05	Rp 87,240.05
13-Jun-15			0	113.88			Rp 87,240.05	Rp 87,240.05
14-Jun-15			0	113.88			Rp 87,240.05	Rp 87,240.05
15-Jun-15	10.9		0	113.88	Rp 131,774.28		Rp 87,240.05	Rp 219,014.33
16-Jun-15		10.9	0	124.78			Rp 95,590.21	Rp 95,590.21
17-Jun-15			0	124.78			Rp 95,590.21	Rp 95,590.21
18-Jun-15			0	124.78			Rp 95,590.21	Rp 95,590.21
19-Jun-15			0	124.78			Rp 95,590.21	Rp 95,590.21
20-Jun-15			0	124.78			Rp 95,590.21	Rp 95,590.21
21-Jun-15			0	124.78			Rp 95,590.21	Rp 95,590.21
22-Jun-15			0	124.78			Rp 95,590.21	Rp 95,590.21
23-Jun-15			0	124.78			Rp 95,590.21	Rp 95,590.21
24-Jun-15			0	124.78			Rp 95,590.21	Rp 95,590.21
25-Jun-15			0	124.78			Rp 95,590.21	Rp 95,590.21
26-Jun-15			0	124.78			Rp 95,590.21	Rp 95,590.21
27-Jun-15			0	124.78			Rp 95,590.21	Rp 95,590.21
28-Jun-15			0	124.78			Rp 95,590.21	Rp 95,590.21
29-Jun-15			0	124.78			Rp 95,590.21	Rp 95,590.21
30-Jun-15	10.9		0	124.78	Rp 131,774.28		Rp 95,590.21	Rp 227,364.49
1-Jul-15			0	124.78			Rp 95,590.21	Rp 95,590.21
2-Jul-15			0	124.78			Rp 95,590.21	Rp 95,590.21
3-Jul-15			0	124.78			Rp 95,590.21	Rp 95,590.21
4-Jul-15		10.9	0	135.68			Rp 103,940.38	Rp 103,940.38
5-Jul-15			0	135.68			Rp 103,940.38	Rp 103,940.38
6-Jul-15			0	135.68			Rp 103,940.38	Rp 103,940.38
7-Jul-15			0	135.68			Rp 103,940.38	Rp 103,940.38
8-Jul-15			0	135.68			Rp 103,940.38	Rp 103,940.38
9-Jul-15			0	135.68			Rp 103,940.38	Rp 103,940.38
10-Jul-15			0	135.68			Rp 103,940.38	Rp 103,940.38
11-Jul-15			0	135.68			Rp 103,940.38	Rp 103,940.38
12-Jul-15			0	135.68			Rp 103,940.38	Rp 103,940.38
13-Jul-15			0	135.68			Rp 103,940.38	Rp 103,940.38
14-Jul-15			0	135.68			Rp 103,940.38	Rp 103,940.38
15-Jul-15	10.9		0	135.68	Rp 131,774.28		Rp 103,940.38	Rp 235,714.66
16-Jul-15			2.95	132.73			Rp 101,680.47	Rp 101,680.47
17-Jul-15			0	132.73			Rp 101,680.47	Rp 101,680.47
18-Jul-15		10.9	0	143.63			Rp 110,030.63	Rp 110,030.63
19-Jul-15			0	143.63			Rp 110,030.63	Rp 110,030.63
20-Jul-15			0	143.63			Rp 110,030.63	Rp 110,030.63
21-Jul-15			0	143.63			Rp 110,030.63	Rp 110,030.63
22-Jul-15			0	143.63			Rp 110,030.63	Rp 110,030.63
23-Jul-15			0	143.63			Rp 110,030.63	Rp 110,030.63
24-Jul-15			0	143.63			Rp 110,030.63	Rp 110,030.63
25-Jul-15			0	143.63			Rp 110,030.63	Rp 110,030.63
26-Jul-15			0	143.63			Rp 110,030.63	Rp 110,030.63
27-Jul-15			0	143.63			Rp 110,030.63	Rp 110,030.63

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
28-Jul-15			0	143.63			Rp 110,030.63	Rp 110,030.63
29-Jul-15			1.21	142.42			Rp 109,103.69	Rp 109,103.69
30-Jul-15			0	142.42			Rp 109,103.69	Rp 109,103.69
31-Jul-15	10.9		0	142.42	Rp 131,774.28		Rp 109,103.69	Rp 240,877.97
1-Aug-15			0	142.42			Rp 109,103.69	Rp 109,103.69
2-Aug-15		10.9	0	153.32			Rp 117,453.85	Rp 117,453.85
3-Aug-15			0	153.32			Rp 117,453.85	Rp 117,453.85
4-Aug-15			0	153.32			Rp 117,453.85	Rp 117,453.85
5-Aug-15			0	153.32			Rp 117,453.85	Rp 117,453.85
6-Aug-15			0	153.32			Rp 117,453.85	Rp 117,453.85
7-Aug-15			0	153.32			Rp 117,453.85	Rp 117,453.85
8-Aug-15			0	153.32			Rp 117,453.85	Rp 117,453.85
9-Aug-15			0	153.32			Rp 117,453.85	Rp 117,453.85
10-Aug-15			1.05	152.27			Rp 116,649.48	Rp 116,649.48
11-Aug-15			0	152.27			Rp 116,649.48	Rp 116,649.48
12-Aug-15			0	152.27			Rp 116,649.48	Rp 116,649.48
13-Aug-15			0	152.27			Rp 116,649.48	Rp 116,649.48
14-Aug-15			0	152.27			Rp 116,649.48	Rp 116,649.48
15-Aug-15	10.9		0	152.27	Rp 131,774.28		Rp 116,649.48	Rp 248,423.76
16-Aug-15			0	152.27			Rp 116,649.48	Rp 116,649.48
17-Aug-15			0	152.27			Rp 116,649.48	Rp 116,649.48
18-Aug-15		10.9	0	163.17			Rp 124,999.64	Rp 124,999.64
19-Aug-15			0	163.17			Rp 124,999.64	Rp 124,999.64
20-Aug-15			0	163.17			Rp 124,999.64	Rp 124,999.64
21-Aug-15			0	163.17			Rp 124,999.64	Rp 124,999.64
22-Aug-15			1.33	161.84			Rp 123,980.77	Rp 123,980.77
23-Aug-15			0	161.84			Rp 123,980.77	Rp 123,980.77
24-Aug-15			0	161.84			Rp 123,980.77	Rp 123,980.77
25-Aug-15			1.65	160.19			Rp 122,716.75	Rp 122,716.75
26-Aug-15			0	160.19			Rp 122,716.75	Rp 122,716.75
27-Aug-15			0	160.19			Rp 122,716.75	Rp 122,716.75
28-Aug-15			0	160.19			Rp 122,716.75	Rp 122,716.75
29-Aug-15			0	160.19			Rp 122,716.75	Rp 122,716.75
30-Aug-15			0	160.19			Rp 122,716.75	Rp 122,716.75
31-Aug-15	10.9		0	160.19	Rp 131,774.28		Rp 122,716.75	Rp 254,491.03
1-Sep-15			0	160.19			Rp 122,716.75	Rp 122,716.75
2-Sep-15		10.9	0	171.09			Rp 131,066.92	Rp 131,066.92
3-Sep-15			0	171.09			Rp 131,066.92	Rp 131,066.92
4-Sep-15			0	171.09			Rp 131,066.92	Rp 131,066.92
5-Sep-15			3.48	167.61			Rp 128,400.99	Rp 128,400.99
6-Sep-15			0	167.61			Rp 128,400.99	Rp 128,400.99
7-Sep-15			0	167.61			Rp 128,400.99	Rp 128,400.99
8-Sep-15			0	167.61			Rp 128,400.99	Rp 128,400.99
9-Sep-15			0	167.61			Rp 128,400.99	Rp 128,400.99
10-Sep-15			0	167.61			Rp 128,400.99	Rp 128,400.99
11-Sep-15			0	167.61			Rp 128,400.99	Rp 128,400.99
12-Sep-15			0	167.61			Rp 128,400.99	Rp 128,400.99
13-Sep-15			0	167.61			Rp 128,400.99	Rp 128,400.99
14-Sep-15			0.29	167.32			Rp 128,178.83	Rp 128,178.83
15-Sep-15	10.9		0	167.32	Rp 131,774.28		Rp 128,178.83	Rp 259,953.11
16-Sep-15			0	167.32			Rp 128,178.83	Rp 128,178.83
17-Sep-15			0	167.32			Rp 128,178.83	Rp 128,178.83
18-Sep-15		10.9	0	178.22			Rp 136,529.00	Rp 136,529.00
19-Sep-15			0	178.22			Rp 136,529.00	Rp 136,529.00
20-Sep-15			0	178.22			Rp 136,529.00	Rp 136,529.00
21-Sep-15			0	178.22			Rp 136,529.00	Rp 136,529.00
22-Sep-15			0	178.22			Rp 136,529.00	Rp 136,529.00
23-Sep-15			0	178.22			Rp 136,529.00	Rp 136,529.00
24-Sep-15			0	178.22			Rp 136,529.00	Rp 136,529.00
25-Sep-15			0	178.22			Rp 136,529.00	Rp 136,529.00
26-Sep-15			0	178.22			Rp 136,529.00	Rp 136,529.00
27-Sep-15			2.65	175.57			Rp 134,498.91	Rp 134,498.91
28-Sep-15			0	175.57			Rp 134,498.91	Rp 134,498.91
29-Sep-15			0	175.57			Rp 134,498.91	Rp 134,498.91
30-Sep-15	10.9		0	175.57	Rp 131,774.28		Rp 134,498.91	Rp 266,273.19
1-Oct-15			0	175.57			Rp 134,498.91	Rp 134,498.91
2-Oct-15		10.9	0	186.47			Rp 142,849.07	Rp 142,849.07
3-Oct-15			0	186.47			Rp 142,849.07	Rp 142,849.07
4-Oct-15			0	186.47			Rp 142,849.07	Rp 142,849.07
5-Oct-15			0	186.47			Rp 142,849.07	Rp 142,849.07
6-Oct-15			0	186.47			Rp 142,849.07	Rp 142,849.07
7-Oct-15			0	186.47			Rp 142,849.07	Rp 142,849.07
8-Oct-15			0	186.47			Rp 142,849.07	Rp 142,849.07

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
9-Oct-15			0	186.47			Rp 142,849.07	Rp 142,849.07
10-Oct-15			0	186.47			Rp 142,849.07	Rp 142,849.07
11-Oct-15			0	186.47			Rp 142,849.07	Rp 142,849.07
12-Oct-15			0	186.47			Rp 142,849.07	Rp 142,849.07
13-Oct-15			1.21	185.26			Rp 141,922.13	Rp 141,922.13
14-Oct-15			0	185.26			Rp 141,922.13	Rp 141,922.13
15-Oct-15	10.9		3.86	181.4	Rp 131,774.28		Rp 138,965.10	Rp 270,739.38
16-Oct-15			0	181.4			Rp 138,965.10	Rp 138,965.10
17-Oct-15			0	181.4			Rp 138,965.10	Rp 138,965.10
18-Oct-15		10.9	0	192.3			Rp 147,315.26	Rp 147,315.26
19-Oct-15			0	192.3			Rp 147,315.26	Rp 147,315.26
20-Oct-15			5.74	186.56			Rp 142,918.02	Rp 142,918.02
21-Oct-15			0	186.56			Rp 142,918.02	Rp 142,918.02
22-Oct-15			0	186.56			Rp 142,918.02	Rp 142,918.02
23-Oct-15			0	186.56			Rp 142,918.02	Rp 142,918.02
24-Oct-15			0	186.56			Rp 142,918.02	Rp 142,918.02
25-Oct-15			0	186.56			Rp 142,918.02	Rp 142,918.02
26-Oct-15			0	186.56			Rp 142,918.02	Rp 142,918.02
27-Oct-15			0	186.56			Rp 142,918.02	Rp 142,918.02
28-Oct-15			0	186.56			Rp 142,918.02	Rp 142,918.02
29-Oct-15			0	186.56			Rp 142,918.02	Rp 142,918.02
30-Oct-15			0	186.56			Rp 142,918.02	Rp 142,918.02
31-Oct-15	10.9		0	186.56	Rp 131,774.28		Rp 142,918.02	Rp 274,692.30
1-Nov-15		10.9	0	197.46			Rp 151,268.18	Rp 151,268.18
2-Nov-15			0	197.46			Rp 151,268.18	Rp 151,268.18
3-Nov-15			0	197.46			Rp 151,268.18	Rp 151,268.18
4-Nov-15			0	197.46			Rp 151,268.18	Rp 151,268.18
5-Nov-15			0	197.46			Rp 151,268.18	Rp 151,268.18
6-Nov-15			0	197.46			Rp 151,268.18	Rp 151,268.18
7-Nov-15			0	197.46			Rp 151,268.18	Rp 151,268.18
8-Nov-15			1.29	196.17			Rp 150,279.95	Rp 150,279.95
9-Nov-15			0	196.17			Rp 150,279.95	Rp 150,279.95
10-Nov-15			0.95	195.22			Rp 149,552.19	Rp 149,552.19
11-Nov-15			0	195.22			Rp 149,552.19	Rp 149,552.19
12-Nov-15			0	195.22			Rp 149,552.19	Rp 149,552.19
13-Nov-15			0	195.22			Rp 149,552.19	Rp 149,552.19
14-Nov-15			0	195.22			Rp 149,552.19	Rp 149,552.19
15-Nov-15	10.9		0	195.22	Rp 131,774.28		Rp 149,552.19	Rp 281,326.47
16-Nov-15			0	195.22			Rp 149,552.19	Rp 149,552.19
17-Nov-15		10.9	0.53	205.59			Rp 157,496.33	Rp 157,496.33
18-Nov-15			0	205.59			Rp 157,496.33	Rp 157,496.33
19-Nov-15			0	205.59			Rp 157,496.33	Rp 157,496.33
20-Nov-15			0	205.59			Rp 157,496.33	Rp 157,496.33
21-Nov-15			0	205.59			Rp 157,496.33	Rp 157,496.33
22-Nov-15			8.24	197.35			Rp 151,183.91	Rp 151,183.91
23-Nov-15			0	197.35			Rp 151,183.91	Rp 151,183.91
24-Nov-15			0	197.35			Rp 151,183.91	Rp 151,183.91
25-Nov-15			0	197.35			Rp 151,183.91	Rp 151,183.91
26-Nov-15			0	197.35			Rp 151,183.91	Rp 151,183.91
27-Nov-15			0	197.35			Rp 151,183.91	Rp 151,183.91
28-Nov-15			0	197.35			Rp 151,183.91	Rp 151,183.91
29-Nov-15			0.97	196.38			Rp 150,440.83	Rp 150,440.83
30-Nov-15	10.9		0	196.38	Rp 131,774.28		Rp 150,440.83	Rp 282,215.11
1-Dec-15			0	196.38			Rp 150,440.83	Rp 150,440.83
2-Dec-15			0	196.38			Rp 150,440.83	Rp 150,440.83
3-Dec-15			0	196.38			Rp 150,440.83	Rp 150,440.83
4-Dec-15			0	196.38			Rp 150,440.83	Rp 150,440.83
5-Dec-15			0	196.38			Rp 150,440.83	Rp 150,440.83
6-Dec-15		10.9	0	207.28			Rp 158,790.99	Rp 158,790.99
7-Dec-15			0	207.28			Rp 158,790.99	Rp 158,790.99
8-Dec-15			0	207.28			Rp 158,790.99	Rp 158,790.99
9-Dec-15			0	207.28			Rp 158,790.99	Rp 158,790.99
10-Dec-15			0	207.28			Rp 158,790.99	Rp 158,790.99
11-Dec-15			0	207.28			Rp 158,790.99	Rp 158,790.99
12-Dec-15			0	207.28			Rp 158,790.99	Rp 158,790.99
13-Dec-15			0	207.28			Rp 158,790.99	Rp 158,790.99
14-Dec-15			0	207.28			Rp 158,790.99	Rp 158,790.99
15-Dec-15	10.9		0	207.28	Rp 131,774.28		Rp 158,790.99	Rp 290,565.27
16-Dec-15			0	207.28			Rp 158,790.99	Rp 158,790.99
17-Dec-15			0	207.28			Rp 158,790.99	Rp 158,790.99
18-Dec-15		10.9	0.34	217.84			Rp 166,880.69	Rp 166,880.69
19-Dec-15			0	217.84			Rp 166,880.69	Rp 166,880.69
20-Dec-15			0	217.84			Rp 166,880.69	Rp 166,880.69

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
21-Dec-15			0	217.84			Rp 166,880.69	Rp 166,880.69
22-Dec-15			0	217.84			Rp 166,880.69	Rp 166,880.69
23-Dec-15			0	217.84			Rp 166,880.69	Rp 166,880.69
24-Dec-15			0	217.84			Rp 166,880.69	Rp 166,880.69
25-Dec-15			0	217.84			Rp 166,880.69	Rp 166,880.69
26-Dec-15			0.14	217.7			Rp 166,773.44	Rp 166,773.44
27-Dec-15			0	217.7			Rp 166,773.44	Rp 166,773.44
28-Dec-15			0	217.7			Rp 166,773.44	Rp 166,773.44
29-Dec-15			0	217.7			Rp 166,773.44	Rp 166,773.44
30-Dec-15			0	217.7			Rp 166,773.44	Rp 166,773.44
31-Dec-15			0	217.7			Rp 166,773.44	Rp 166,773.44
								Rp 42,183,290.20

Replication 2

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
3-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
4-Jan-15			0.25	84.5			Rp 64,732.92	Rp 64,732.92
5-Jan-15			0	84.5			Rp 64,732.92	Rp 64,732.92
6-Jan-15			0	84.5			Rp 64,732.92	Rp 64,732.92
7-Jan-15			1.01	83.49			Rp 63,959.18	Rp 63,959.18
8-Jan-15			0	83.49			Rp 63,959.18	Rp 63,959.18
9-Jan-15			0	83.49			Rp 63,959.18	Rp 63,959.18
10-Jan-15			0	83.49			Rp 63,959.18	Rp 63,959.18
11-Jan-15			0	83.49			Rp 63,959.18	Rp 63,959.18
12-Jan-15			0	83.49			Rp 63,959.18	Rp 63,959.18
13-Jan-15			0	83.49			Rp 63,959.18	Rp 63,959.18
14-Jan-15			0	83.49			Rp 63,959.18	Rp 63,959.18
15-Jan-15	10.9		3.23	80.26	Rp 131,774.28		Rp 61,484.78	Rp 193,259.06
16-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
17-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
18-Jan-15		10.9	0	91.16			Rp 69,834.94	Rp 69,834.94
19-Jan-15			0	91.16			Rp 69,834.94	Rp 69,834.94
20-Jan-15			0	91.16			Rp 69,834.94	Rp 69,834.94
21-Jan-15			0	91.16			Rp 69,834.94	Rp 69,834.94
22-Jan-15			0	91.16			Rp 69,834.94	Rp 69,834.94
23-Jan-15			0	91.16			Rp 69,834.94	Rp 69,834.94
24-Jan-15			0	91.16			Rp 69,834.94	Rp 69,834.94
25-Jan-15			0	91.16			Rp 69,834.94	Rp 69,834.94
26-Jan-15			0	91.16			Rp 69,834.94	Rp 69,834.94
27-Jan-15			0	91.16			Rp 69,834.94	Rp 69,834.94
28-Jan-15			0	91.16			Rp 69,834.94	Rp 69,834.94
29-Jan-15			0	91.16			Rp 69,834.94	Rp 69,834.94
30-Jan-15			1.5	89.66			Rp 68,685.84	Rp 68,685.84
31-Jan-15	10.9		0	89.66	Rp 131,774.28		Rp 68,685.84	Rp 200,460.12
1-Feb-15			0	89.66			Rp 68,685.84	Rp 68,685.84
2-Feb-15		10.9	0	100.56			Rp 77,036.00	Rp 77,036.00
3-Feb-15			1.17	99.39			Rp 76,139.70	Rp 76,139.70
4-Feb-15			2.09	97.3			Rp 74,538.61	Rp 74,538.61
5-Feb-15			1.38	95.92			Rp 73,481.43	Rp 73,481.43
6-Feb-15			0	95.92			Rp 73,481.43	Rp 73,481.43
7-Feb-15			0	95.92			Rp 73,481.43	Rp 73,481.43
8-Feb-15			0	95.92			Rp 73,481.43	Rp 73,481.43
9-Feb-15			0	95.92			Rp 73,481.43	Rp 73,481.43
10-Feb-15			0	95.92			Rp 73,481.43	Rp 73,481.43
11-Feb-15			0	95.92			Rp 73,481.43	Rp 73,481.43
12-Feb-15			0	95.92			Rp 73,481.43	Rp 73,481.43
13-Feb-15			0	95.92			Rp 73,481.43	Rp 73,481.43
14-Feb-15			0	95.92			Rp 73,481.43	Rp 73,481.43
15-Feb-15	10.9		0	95.92	Rp 131,774.28		Rp 73,481.43	Rp 205,255.71
16-Feb-15		10.9	0	106.82			Rp 81,831.60	Rp 81,831.60
17-Feb-15			0	106.82			Rp 81,831.60	Rp 81,831.60
18-Feb-15			0	106.82			Rp 81,831.60	Rp 81,831.60
19-Feb-15			0	106.82			Rp 81,831.60	Rp 81,831.60
20-Feb-15			0	106.82			Rp 81,831.60	Rp 81,831.60
21-Feb-15			0	106.82			Rp 81,831.60	Rp 81,831.60
22-Feb-15			0	106.82			Rp 81,831.60	Rp 81,831.60
23-Feb-15			0	106.82			Rp 81,831.60	Rp 81,831.60

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
24-Feb-15			0	106.82			Rp 81,831.60	Rp 81,831.60
25-Feb-15			0	106.82			Rp 81,831.60	Rp 81,831.60
26-Feb-15			0	106.82			Rp 81,831.60	Rp 81,831.60
27-Feb-15			3.07	103.75			Rp 79,479.76	Rp 79,479.76
28-Feb-15	10.9		0	103.75	Rp 131,774.28		Rp 79,479.76	Rp 211,254.04
1-Mar-15			0	103.75			Rp 79,479.76	Rp 79,479.76
2-Mar-15			0	103.75			Rp 79,479.76	Rp 79,479.76
3-Mar-15		10.9	0	114.65			Rp 87,829.93	Rp 87,829.93
4-Mar-15			0	114.65			Rp 87,829.93	Rp 87,829.93
5-Mar-15			0	114.65			Rp 87,829.93	Rp 87,829.93
6-Mar-15			0	114.65			Rp 87,829.93	Rp 87,829.93
7-Mar-15			0	114.65			Rp 87,829.93	Rp 87,829.93
8-Mar-15			0	114.65			Rp 87,829.93	Rp 87,829.93
9-Mar-15			0	114.65			Rp 87,829.93	Rp 87,829.93
10-Mar-15			0.13	114.52			Rp 87,730.34	Rp 87,730.34
11-Mar-15			0	114.52			Rp 87,730.34	Rp 87,730.34
12-Mar-15			0	114.52			Rp 87,730.34	Rp 87,730.34
13-Mar-15			0	114.52			Rp 87,730.34	Rp 87,730.34
14-Mar-15			0	114.52			Rp 87,730.34	Rp 87,730.34
15-Mar-15	10.9		0	114.52	Rp 131,774.28		Rp 87,730.34	Rp 219,504.62
16-Mar-15			0	114.52			Rp 87,730.34	Rp 87,730.34
17-Mar-15		10.9	0	125.42			Rp 96,080.50	Rp 96,080.50
18-Mar-15			0	125.42			Rp 96,080.50	Rp 96,080.50
19-Mar-15			0	125.42			Rp 96,080.50	Rp 96,080.50
20-Mar-15			2.51	122.91			Rp 94,157.66	Rp 94,157.66
21-Mar-15			0	122.91			Rp 94,157.66	Rp 94,157.66
22-Mar-15			0.18	122.73			Rp 94,019.77	Rp 94,019.77
23-Mar-15			0	122.73			Rp 94,019.77	Rp 94,019.77
24-Mar-15			0	122.73			Rp 94,019.77	Rp 94,019.77
25-Mar-15			0	122.73			Rp 94,019.77	Rp 94,019.77
26-Mar-15			0	122.73			Rp 94,019.77	Rp 94,019.77
27-Mar-15			0	122.73			Rp 94,019.77	Rp 94,019.77
28-Mar-15			0	122.73			Rp 94,019.77	Rp 94,019.77
29-Mar-15			0	122.73			Rp 94,019.77	Rp 94,019.77
30-Mar-15			0	122.73			Rp 94,019.77	Rp 94,019.77
31-Mar-15	10.9		0	122.73	Rp 131,774.28		Rp 94,019.77	Rp 225,794.05
1-Apr-15			0	122.73			Rp 94,019.77	Rp 94,019.77
2-Apr-15		10.9	0	133.63			Rp 102,369.93	Rp 102,369.93
3-Apr-15			0	133.63			Rp 102,369.93	Rp 102,369.93
4-Apr-15			0	133.63			Rp 102,369.93	Rp 102,369.93
5-Apr-15			1.51	132.12			Rp 101,213.17	Rp 101,213.17
6-Apr-15			0	132.12			Rp 101,213.17	Rp 101,213.17
7-Apr-15			0	132.12			Rp 101,213.17	Rp 101,213.17
8-Apr-15			0	132.12			Rp 101,213.17	Rp 101,213.17
9-Apr-15			0	132.12			Rp 101,213.17	Rp 101,213.17
10-Apr-15			0	132.12			Rp 101,213.17	Rp 101,213.17
11-Apr-15			0	132.12			Rp 101,213.17	Rp 101,213.17
12-Apr-15			0	132.12			Rp 101,213.17	Rp 101,213.17
13-Apr-15			0	132.12			Rp 101,213.17	Rp 101,213.17
14-Apr-15			5.86	126.26			Rp 96,724.00	Rp 96,724.00
15-Apr-15	10.9		0	126.26	Rp 131,774.28		Rp 96,724.00	Rp 228,498.28
16-Apr-15			0	126.26			Rp 96,724.00	Rp 96,724.00
17-Apr-15			1.37	124.89			Rp 95,674.48	Rp 95,674.48
18-Apr-15		10.9	0	135.79			Rp 104,024.65	Rp 104,024.65
19-Apr-15			0	135.79			Rp 104,024.65	Rp 104,024.65
20-Apr-15			0	135.79			Rp 104,024.65	Rp 104,024.65
21-Apr-15			0	135.79			Rp 104,024.65	Rp 104,024.65
22-Apr-15			0	135.79			Rp 104,024.65	Rp 104,024.65
23-Apr-15			1.14	134.65			Rp 103,151.33	Rp 103,151.33
24-Apr-15			0	134.65			Rp 103,151.33	Rp 103,151.33
25-Apr-15			0	134.65			Rp 103,151.33	Rp 103,151.33
26-Apr-15			0	134.65			Rp 103,151.33	Rp 103,151.33
27-Apr-15			0	134.65			Rp 103,151.33	Rp 103,151.33
28-Apr-15			0	134.65			Rp 103,151.33	Rp 103,151.33
29-Apr-15			0	134.65			Rp 103,151.33	Rp 103,151.33
30-Apr-15	10.9		0	134.65	Rp 131,774.28		Rp 103,151.33	Rp 234,925.61
1-May-15			0.58	134.07			Rp 102,707.00	Rp 102,707.00
2-May-15			0	134.07			Rp 102,707.00	Rp 102,707.00
3-May-15		10.9	0	144.97			Rp 111,057.17	Rp 111,057.17
4-May-15			1.96	143.01			Rp 109,555.67	Rp 109,555.67
5-May-15			0	143.01			Rp 109,555.67	Rp 109,555.67
6-May-15			0	143.01			Rp 109,555.67	Rp 109,555.67
7-May-15			0	143.01			Rp 109,555.67	Rp 109,555.67
8-May-15			0	143.01			Rp 109,555.67	Rp 109,555.67

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
9-May-15			0	143.01			Rp 109,555.67	Rp 109,555.67
10-May-15			0	143.01			Rp 109,555.67	Rp 109,555.67
11-May-15			0	143.01			Rp 109,555.67	Rp 109,555.67
12-May-15			0	143.01			Rp 109,555.67	Rp 109,555.67
13-May-15			0	143.01			Rp 109,555.67	Rp 109,555.67
14-May-15			0	143.01			Rp 109,555.67	Rp 109,555.67
15-May-15	10.9		0	143.01	Rp 131,774.28		Rp 109,555.67	Rp 241,329.95
16-May-15			0	143.01			Rp 109,555.67	Rp 109,555.67
17-May-15		10.9	0	153.91			Rp 117,905.83	Rp 117,905.83
18-May-15			0	153.91			Rp 117,905.83	Rp 117,905.83
19-May-15			0	153.91			Rp 117,905.83	Rp 117,905.83
20-May-15			0	153.91			Rp 117,905.83	Rp 117,905.83
21-May-15			0	153.91			Rp 117,905.83	Rp 117,905.83
22-May-15			0	153.91			Rp 117,905.83	Rp 117,905.83
23-May-15			0	153.91			Rp 117,905.83	Rp 117,905.83
24-May-15			0	153.91			Rp 117,905.83	Rp 117,905.83
25-May-15			3.01	150.9			Rp 115,599.96	Rp 115,599.96
26-May-15			0	150.9			Rp 115,599.96	Rp 115,599.96
27-May-15			0	150.9			Rp 115,599.96	Rp 115,599.96
28-May-15			0	150.9			Rp 115,599.96	Rp 115,599.96
29-May-15			0.85	150.05			Rp 114,948.80	Rp 114,948.80
30-May-15			0	150.05			Rp 114,948.80	Rp 114,948.80
31-May-15	10.9		7.4	142.65	Rp 131,774.28		Rp 109,279.89	Rp 241,054.17
1-Jun-15			0	142.65			Rp 109,279.89	Rp 109,279.89
2-Jun-15			0	142.65			Rp 109,279.89	Rp 109,279.89
3-Jun-15			0	142.65			Rp 109,279.89	Rp 109,279.89
4-Jun-15			0	142.65			Rp 109,279.89	Rp 109,279.89
5-Jun-15			0	142.65			Rp 109,279.89	Rp 109,279.89
6-Jun-15		10.9	0	153.55			Rp 117,630.05	Rp 117,630.05
7-Jun-15			0	153.55			Rp 117,630.05	Rp 117,630.05
8-Jun-15			0	153.55			Rp 117,630.05	Rp 117,630.05
9-Jun-15			0	153.55			Rp 117,630.05	Rp 117,630.05
10-Jun-15			0	153.55			Rp 117,630.05	Rp 117,630.05
11-Jun-15			2.01	151.54			Rp 116,090.25	Rp 116,090.25
12-Jun-15			0	151.54			Rp 116,090.25	Rp 116,090.25
13-Jun-15			0	151.54			Rp 116,090.25	Rp 116,090.25
14-Jun-15			0	151.54			Rp 116,090.25	Rp 116,090.25
15-Jun-15	10.9		0	151.54	Rp 131,774.28		Rp 116,090.25	Rp 247,864.53
16-Jun-15			0	151.54			Rp 116,090.25	Rp 116,090.25
17-Jun-15			0	151.54			Rp 116,090.25	Rp 116,090.25
18-Jun-15			0	151.54			Rp 116,090.25	Rp 116,090.25
19-Jun-15		10.9	0	162.44			Rp 124,440.41	Rp 124,440.41
20-Jun-15			0.87	161.57			Rp 123,773.93	Rp 123,773.93
21-Jun-15			0	161.57			Rp 123,773.93	Rp 123,773.93
22-Jun-15			0.63	160.94			Rp 123,291.31	Rp 123,291.31
23-Jun-15			0	160.94			Rp 123,291.31	Rp 123,291.31
24-Jun-15			0	160.94			Rp 123,291.31	Rp 123,291.31
25-Jun-15			0	160.94			Rp 123,291.31	Rp 123,291.31
26-Jun-15			0	160.94			Rp 123,291.31	Rp 123,291.31
27-Jun-15			0	160.94			Rp 123,291.31	Rp 123,291.31
28-Jun-15			0	160.94			Rp 123,291.31	Rp 123,291.31
29-Jun-15			0	160.94			Rp 123,291.31	Rp 123,291.31
30-Jun-15	10.9		0	160.94	Rp 131,774.28		Rp 123,291.31	Rp 255,065.59
1-Jul-15		10.9	0.93	170.91			Rp 130,929.02	Rp 130,929.02
2-Jul-15			0	170.91			Rp 130,929.02	Rp 130,929.02
3-Jul-15			0	170.91			Rp 130,929.02	Rp 130,929.02
4-Jul-15			0	170.91			Rp 130,929.02	Rp 130,929.02
5-Jul-15			0	170.91			Rp 130,929.02	Rp 130,929.02
6-Jul-15			0	170.91			Rp 130,929.02	Rp 130,929.02
7-Jul-15			0	170.91			Rp 130,929.02	Rp 130,929.02
8-Jul-15			0	170.91			Rp 130,929.02	Rp 130,929.02
9-Jul-15			0	170.91			Rp 130,929.02	Rp 130,929.02
10-Jul-15			0	170.91			Rp 130,929.02	Rp 130,929.02
11-Jul-15			0	170.91			Rp 130,929.02	Rp 130,929.02
12-Jul-15			1.27	169.64			Rp 129,956.11	Rp 129,956.11
13-Jul-15			0	169.64			Rp 129,956.11	Rp 129,956.11
14-Jul-15			0	169.64			Rp 129,956.11	Rp 129,956.11
15-Jul-15	10.9		0	169.64	Rp 131,774.28		Rp 129,956.11	Rp 261,730.39
16-Jul-15			0	169.64			Rp 129,956.11	Rp 129,956.11
17-Jul-15			0	169.64			Rp 129,956.11	Rp 129,956.11
18-Jul-15		10.9	0	180.54			Rp 138,306.28	Rp 138,306.28
19-Jul-15			0	180.54			Rp 138,306.28	Rp 138,306.28
20-Jul-15			0	180.54			Rp 138,306.28	Rp 138,306.28
21-Jul-15			0	180.54			Rp 138,306.28	Rp 138,306.28

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
22-Jul-15			0	180.54			Rp 138,306.28	Rp 138,306.28
23-Jul-15			0	180.54			Rp 138,306.28	Rp 138,306.28
24-Jul-15			0	180.54			Rp 138,306.28	Rp 138,306.28
25-Jul-15			0	180.54			Rp 138,306.28	Rp 138,306.28
26-Jul-15			0	180.54			Rp 138,306.28	Rp 138,306.28
27-Jul-15			0.28	180.26			Rp 138,091.78	Rp 138,091.78
28-Jul-15			0	180.26			Rp 138,091.78	Rp 138,091.78
29-Jul-15			0	180.26			Rp 138,091.78	Rp 138,091.78
30-Jul-15			0	180.26			Rp 138,091.78	Rp 138,091.78
31-Jul-15	10.9		0	180.26	Rp 131,774.28		Rp 138,091.78	Rp 269,866.06
1-Aug-15			0	180.26			Rp 138,091.78	Rp 138,091.78
2-Aug-15			2.37	177.89			Rp 136,276.19	Rp 136,276.19
3-Aug-15		10.9	0	188.79			Rp 144,626.36	Rp 144,626.36
4-Aug-15			0.93	187.86			Rp 143,913.91	Rp 143,913.91
5-Aug-15			0	187.86			Rp 143,913.91	Rp 143,913.91
6-Aug-15			0	187.86			Rp 143,913.91	Rp 143,913.91
7-Aug-15			0	187.86			Rp 143,913.91	Rp 143,913.91
8-Aug-15			0	187.86			Rp 143,913.91	Rp 143,913.91
9-Aug-15			0	187.86			Rp 143,913.91	Rp 143,913.91
10-Aug-15			0	187.86			Rp 143,913.91	Rp 143,913.91
11-Aug-15			0	187.86			Rp 143,913.91	Rp 143,913.91
12-Aug-15			0	187.86			Rp 143,913.91	Rp 143,913.91
13-Aug-15			0	187.86			Rp 143,913.91	Rp 143,913.91
14-Aug-15			3.06	184.8			Rp 141,569.74	Rp 141,569.74
15-Aug-15	10.9		0	184.8	Rp 131,774.28		Rp 141,569.74	Rp 273,344.02
16-Aug-15			0	184.8			Rp 141,569.74	Rp 141,569.74
17-Aug-15		10.9	0	195.7			Rp 149,919.90	Rp 149,919.90
18-Aug-15			2.81	192.89			Rp 147,767.24	Rp 147,767.24
19-Aug-15			0	192.89			Rp 147,767.24	Rp 147,767.24
20-Aug-15			0	192.89			Rp 147,767.24	Rp 147,767.24
21-Aug-15			0	192.89			Rp 147,767.24	Rp 147,767.24
22-Aug-15			0	192.89			Rp 147,767.24	Rp 147,767.24
23-Aug-15			0	192.89			Rp 147,767.24	Rp 147,767.24
24-Aug-15			0	192.89			Rp 147,767.24	Rp 147,767.24
25-Aug-15			0	192.89			Rp 147,767.24	Rp 147,767.24
26-Aug-15			0	192.89			Rp 147,767.24	Rp 147,767.24
27-Aug-15			0	192.89			Rp 147,767.24	Rp 147,767.24
28-Aug-15			0	192.89			Rp 147,767.24	Rp 147,767.24
29-Aug-15			0	192.89			Rp 147,767.24	Rp 147,767.24
30-Aug-15			0	192.89			Rp 147,767.24	Rp 147,767.24
31-Aug-15	10.9		0	192.89	Rp 131,774.28		Rp 147,767.24	Rp 279,541.52
1-Sep-15			0	192.89			Rp 147,767.24	Rp 147,767.24
2-Sep-15		10.9	0	203.79			Rp 156,117.41	Rp 156,117.41
3-Sep-15			0	203.79			Rp 156,117.41	Rp 156,117.41
4-Sep-15			0	203.79			Rp 156,117.41	Rp 156,117.41
5-Sep-15			0	203.79			Rp 156,117.41	Rp 156,117.41
6-Sep-15			0	203.79			Rp 156,117.41	Rp 156,117.41
7-Sep-15			0	203.79			Rp 156,117.41	Rp 156,117.41
8-Sep-15			0	203.79			Rp 156,117.41	Rp 156,117.41
9-Sep-15			0	203.79			Rp 156,117.41	Rp 156,117.41
10-Sep-15			0	203.79			Rp 156,117.41	Rp 156,117.41
11-Sep-15			0	203.79			Rp 156,117.41	Rp 156,117.41
12-Sep-15			0	203.79			Rp 156,117.41	Rp 156,117.41
13-Sep-15			0	203.79			Rp 156,117.41	Rp 156,117.41
14-Sep-15			0	203.79			Rp 156,117.41	Rp 156,117.41
15-Sep-15	10.9		0	203.79	Rp 131,774.28		Rp 156,117.41	Rp 287,891.69
16-Sep-15			0	203.79			Rp 156,117.41	Rp 156,117.41
17-Sep-15			0	203.79			Rp 156,117.41	Rp 156,117.41
18-Sep-15		10.9	0	214.69			Rp 164,467.57	Rp 164,467.57
19-Sep-15			0	214.69			Rp 164,467.57	Rp 164,467.57
20-Sep-15			0	214.69			Rp 164,467.57	Rp 164,467.57
21-Sep-15			0	214.69			Rp 164,467.57	Rp 164,467.57
22-Sep-15			0	214.69			Rp 164,467.57	Rp 164,467.57
23-Sep-15			0	214.69			Rp 164,467.57	Rp 164,467.57
24-Sep-15			0	214.69			Rp 164,467.57	Rp 164,467.57
25-Sep-15			0	214.69			Rp 164,467.57	Rp 164,467.57
26-Sep-15			0	214.69			Rp 164,467.57	Rp 164,467.57
27-Sep-15			0	214.69			Rp 164,467.57	Rp 164,467.57
28-Sep-15			0	214.69			Rp 164,467.57	Rp 164,467.57
29-Sep-15			0	214.69			Rp 164,467.57	Rp 164,467.57
30-Sep-15	10.9		0	214.69	Rp 131,774.28		Rp 164,467.57	Rp 296,241.85
1-Oct-15			2.34	212.35			Rp 162,674.96	Rp 162,674.96
2-Oct-15		10.9	0	223.25			Rp 171,025.13	Rp 171,025.13
3-Oct-15			0	223.25			Rp 171,025.13	Rp 171,025.13

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
4-Oct-15			0	223.25			Rp 171,025.13	Rp 171,025.13
5-Oct-15			17.94	205.31			Rp 157,281.83	Rp 157,281.83
6-Oct-15			0	205.31			Rp 157,281.83	Rp 157,281.83
7-Oct-15			0	205.31			Rp 157,281.83	Rp 157,281.83
8-Oct-15			0	205.31			Rp 157,281.83	Rp 157,281.83
9-Oct-15			0	205.31			Rp 157,281.83	Rp 157,281.83
10-Oct-15			0	205.31			Rp 157,281.83	Rp 157,281.83
11-Oct-15			0	205.31			Rp 157,281.83	Rp 157,281.83
12-Oct-15			0	205.31			Rp 157,281.83	Rp 157,281.83
13-Oct-15			0	205.31			Rp 157,281.83	Rp 157,281.83
14-Oct-15			0	205.31			Rp 157,281.83	Rp 157,281.83
15-Oct-15	10.9		0	205.31	Rp 131,774.28		Rp 157,281.83	Rp 289,056.11
16-Oct-15		10.9	0	216.21			Rp 165,631.99	Rp 165,631.99
17-Oct-15			0	216.21			Rp 165,631.99	Rp 165,631.99
18-Oct-15			0	216.21			Rp 165,631.99	Rp 165,631.99
19-Oct-15			0	216.21			Rp 165,631.99	Rp 165,631.99
20-Oct-15			0	216.21			Rp 165,631.99	Rp 165,631.99
21-Oct-15			0	216.21			Rp 165,631.99	Rp 165,631.99
22-Oct-15			0	216.21			Rp 165,631.99	Rp 165,631.99
23-Oct-15			0	216.21			Rp 165,631.99	Rp 165,631.99
24-Oct-15			0	216.21			Rp 165,631.99	Rp 165,631.99
25-Oct-15			0	216.21			Rp 165,631.99	Rp 165,631.99
26-Oct-15			0	216.21			Rp 165,631.99	Rp 165,631.99
27-Oct-15			0	216.21			Rp 165,631.99	Rp 165,631.99
28-Oct-15			0	216.21			Rp 165,631.99	Rp 165,631.99
29-Oct-15			0	216.21			Rp 165,631.99	Rp 165,631.99
30-Oct-15			0	216.21			Rp 165,631.99	Rp 165,631.99
31-Oct-15	10.9		0.64	215.57	Rp 131,774.28		Rp 165,141.71	Rp 296,915.99
1-Nov-15			0	215.57			Rp 165,141.71	Rp 165,141.71
2-Nov-15		10.9	0	226.47			Rp 173,491.87	Rp 173,491.87
3-Nov-15			0	226.47			Rp 173,491.87	Rp 173,491.87
4-Nov-15			0	226.47			Rp 173,491.87	Rp 173,491.87
5-Nov-15			0	226.47			Rp 173,491.87	Rp 173,491.87
6-Nov-15			0	226.47			Rp 173,491.87	Rp 173,491.87
7-Nov-15			0	226.47			Rp 173,491.87	Rp 173,491.87
8-Nov-15			0	226.47			Rp 173,491.87	Rp 173,491.87
9-Nov-15			0	226.47			Rp 173,491.87	Rp 173,491.87
10-Nov-15			5.35	221.12			Rp 169,393.40	Rp 169,393.40
11-Nov-15			0	221.12			Rp 169,393.40	Rp 169,393.40
12-Nov-15			0	221.12			Rp 169,393.40	Rp 169,393.40
13-Nov-15			0	221.12			Rp 169,393.40	Rp 169,393.40
14-Nov-15			0	221.12			Rp 169,393.40	Rp 169,393.40
15-Nov-15	10.9		0	221.12	Rp 131,774.28		Rp 169,393.40	Rp 301,167.68
16-Nov-15			0	221.12			Rp 169,393.40	Rp 169,393.40
17-Nov-15			0	221.12			Rp 169,393.40	Rp 169,393.40
18-Nov-15			0.29	220.83			Rp 169,171.24	Rp 169,171.24
19-Nov-15		10.9	3.8	227.93			Rp 174,610.34	Rp 174,610.34
20-Nov-15			0	227.93			Rp 174,610.34	Rp 174,610.34
21-Nov-15			3.99	223.94			Rp 171,553.72	Rp 171,553.72
22-Nov-15			0	223.94			Rp 171,553.72	Rp 171,553.72
23-Nov-15			0	223.94			Rp 171,553.72	Rp 171,553.72
24-Nov-15			0	223.94			Rp 171,553.72	Rp 171,553.72
25-Nov-15			0	223.94			Rp 171,553.72	Rp 171,553.72
26-Nov-15			0	223.94			Rp 171,553.72	Rp 171,553.72
27-Nov-15			0	223.94			Rp 171,553.72	Rp 171,553.72
28-Nov-15			0	223.94			Rp 171,553.72	Rp 171,553.72
29-Nov-15			0	223.94			Rp 171,553.72	Rp 171,553.72
30-Nov-15	10.9		0	223.94	Rp 131,774.28		Rp 171,553.72	Rp 303,328.00
1-Dec-15			0	223.94			Rp 171,553.72	Rp 171,553.72
2-Dec-15		10.9	0	234.84			Rp 179,903.88	Rp 179,903.88
3-Dec-15			0	234.84			Rp 179,903.88	Rp 179,903.88
4-Dec-15			0	234.84			Rp 179,903.88	Rp 179,903.88
5-Dec-15			0	234.84			Rp 179,903.88	Rp 179,903.88
6-Dec-15			0	234.84			Rp 179,903.88	Rp 179,903.88
7-Dec-15			0	234.84			Rp 179,903.88	Rp 179,903.88
8-Dec-15			0	234.84			Rp 179,903.88	Rp 179,903.88
9-Dec-15			0	234.84			Rp 179,903.88	Rp 179,903.88
10-Dec-15			0	234.84			Rp 179,903.88	Rp 179,903.88
11-Dec-15			0	234.84			Rp 179,903.88	Rp 179,903.88
12-Dec-15			0	234.84			Rp 179,903.88	Rp 179,903.88
13-Dec-15			0	234.84			Rp 179,903.88	Rp 179,903.88
14-Dec-15			0	234.84			Rp 179,903.88	Rp 179,903.88
15-Dec-15	10.9		0	234.84	Rp 131,774.28		Rp 179,903.88	Rp 311,678.16
16-Dec-15			0	234.84			Rp 179,903.88	Rp 179,903.88

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
17-Dec-15			0	234.84			Rp 179,903.88	Rp 179,903.88
18-Dec-15			0	234.84			Rp 179,903.88	Rp 179,903.88
19-Dec-15			0	234.84			Rp 179,903.88	Rp 179,903.88
20-Dec-15			0	234.84			Rp 179,903.88	Rp 179,903.88
21-Dec-15		10.9	1.47	244.27			Rp 187,127.92	Rp 187,127.92
22-Dec-15			0	244.27			Rp 187,127.92	Rp 187,127.92
23-Dec-15			0	244.27			Rp 187,127.92	Rp 187,127.92
24-Dec-15			0	244.27			Rp 187,127.92	Rp 187,127.92
25-Dec-15			0	244.27			Rp 187,127.92	Rp 187,127.92
26-Dec-15			0	244.27			Rp 187,127.92	Rp 187,127.92
27-Dec-15			0	244.27			Rp 187,127.92	Rp 187,127.92
28-Dec-15			1.47	242.8			Rp 186,001.80	Rp 186,001.80
29-Dec-15			0	242.8			Rp 186,001.80	Rp 186,001.80
30-Dec-15			0	242.8			Rp 186,001.80	Rp 186,001.80
31-Dec-15			0	242.8			Rp 186,001.80	Rp 186,001.80
								Rp 49,479,946.07

Replication 3

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			3.01	81.74			Rp 62,618.56	Rp 62,618.56
3-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
4-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
5-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
6-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
7-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
8-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
9-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
10-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
11-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
12-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
13-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
14-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
15-Jan-15	10.9		0	81.74	Rp 131,774.28		Rp 62,618.56	Rp 194,392.84
16-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
17-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
18-Jan-15		10.9	0	92.64			Rp 70,968.72	Rp 70,968.72
19-Jan-15			0	92.64			Rp 70,968.72	Rp 70,968.72
20-Jan-15			0	92.64			Rp 70,968.72	Rp 70,968.72
21-Jan-15			0	92.64			Rp 70,968.72	Rp 70,968.72
22-Jan-15			0	92.64			Rp 70,968.72	Rp 70,968.72
23-Jan-15			0	92.64			Rp 70,968.72	Rp 70,968.72
24-Jan-15			0	92.64			Rp 70,968.72	Rp 70,968.72
25-Jan-15			0	92.64			Rp 70,968.72	Rp 70,968.72
26-Jan-15			1.39	91.25			Rp 69,903.89	Rp 69,903.89
27-Jan-15			0	91.25			Rp 69,903.89	Rp 69,903.89
28-Jan-15			0	91.25			Rp 69,903.89	Rp 69,903.89
29-Jan-15			0	91.25			Rp 69,903.89	Rp 69,903.89
30-Jan-15			0	91.25			Rp 69,903.89	Rp 69,903.89
31-Jan-15	10.9		2.48	88.77	Rp 131,774.28		Rp 68,004.03	Rp 199,778.31
1-Feb-15		10.9	0	99.67			Rp 76,354.20	Rp 76,354.20
2-Feb-15			0	99.67			Rp 76,354.20	Rp 76,354.20
3-Feb-15			0	99.67			Rp 76,354.20	Rp 76,354.20
4-Feb-15			0	99.67			Rp 76,354.20	Rp 76,354.20
5-Feb-15			0	99.67			Rp 76,354.20	Rp 76,354.20
6-Feb-15			0	99.67			Rp 76,354.20	Rp 76,354.20
7-Feb-15			0	99.67			Rp 76,354.20	Rp 76,354.20
8-Feb-15			0	99.67			Rp 76,354.20	Rp 76,354.20
9-Feb-15			0	99.67			Rp 76,354.20	Rp 76,354.20
10-Feb-15			0	99.67			Rp 76,354.20	Rp 76,354.20
11-Feb-15			0	99.67			Rp 76,354.20	Rp 76,354.20
12-Feb-15			0	99.67			Rp 76,354.20	Rp 76,354.20
13-Feb-15			0	99.67			Rp 76,354.20	Rp 76,354.20
14-Feb-15			0	99.67			Rp 76,354.20	Rp 76,354.20
15-Feb-15	10.9		0.43	99.24	Rp 131,774.28		Rp 76,024.79	Rp 207,799.07
16-Feb-15			0	99.24			Rp 76,024.79	Rp 76,024.79
17-Feb-15			0	99.24			Rp 76,024.79	Rp 76,024.79
18-Feb-15		10.9	3.56	106.58			Rp 81,647.74	Rp 81,647.74
19-Feb-15			0	106.58			Rp 81,647.74	Rp 81,647.74

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
20-Feb-15			0	106.58			Rp 81,647.74	Rp 81,647.74
21-Feb-15			0	106.58			Rp 81,647.74	Rp 81,647.74
22-Feb-15			1.57	105.01			Rp 80,445.01	Rp 80,445.01
23-Feb-15			0	105.01			Rp 80,445.01	Rp 80,445.01
24-Feb-15			0	105.01			Rp 80,445.01	Rp 80,445.01
25-Feb-15			0.63	104.38			Rp 79,962.39	Rp 79,962.39
26-Feb-15			3.42	100.96			Rp 77,342.43	Rp 77,342.43
27-Feb-15			0	100.96			Rp 77,342.43	Rp 77,342.43
28-Feb-15	10.9		0	100.96	Rp 131,774.28		Rp 77,342.43	Rp 209,116.71
1-Mar-15			0	100.96			Rp 77,342.43	Rp 77,342.43
2-Mar-15		10.9	0.82	111.04			Rp 85,064.41	Rp 85,064.41
3-Mar-15			0	111.04			Rp 85,064.41	Rp 85,064.41
4-Mar-15			0	111.04			Rp 85,064.41	Rp 85,064.41
5-Mar-15			0	111.04			Rp 85,064.41	Rp 85,064.41
6-Mar-15			0	111.04			Rp 85,064.41	Rp 85,064.41
7-Mar-15			0	111.04			Rp 85,064.41	Rp 85,064.41
8-Mar-15			0	111.04			Rp 85,064.41	Rp 85,064.41
9-Mar-15			0	111.04			Rp 85,064.41	Rp 85,064.41
10-Mar-15			0	111.04			Rp 85,064.41	Rp 85,064.41
11-Mar-15			0	111.04			Rp 85,064.41	Rp 85,064.41
12-Mar-15			8.5	102.54			Rp 78,552.82	Rp 78,552.82
13-Mar-15			0	102.54			Rp 78,552.82	Rp 78,552.82
14-Mar-15			0.35	102.19			Rp 78,284.69	Rp 78,284.69
15-Mar-15	10.9		0	102.19	Rp 131,774.28		Rp 78,284.69	Rp 210,058.97
16-Mar-15			0	102.19			Rp 78,284.69	Rp 78,284.69
17-Mar-15			0	102.19			Rp 78,284.69	Rp 78,284.69
18-Mar-15		10.9	0	113.09			Rp 86,634.86	Rp 86,634.86
19-Mar-15			0	113.09			Rp 86,634.86	Rp 86,634.86
20-Mar-15			0	113.09			Rp 86,634.86	Rp 86,634.86
21-Mar-15			0	113.09			Rp 86,634.86	Rp 86,634.86
22-Mar-15			0	113.09			Rp 86,634.86	Rp 86,634.86
23-Mar-15			0	113.09			Rp 86,634.86	Rp 86,634.86
24-Mar-15			0	113.09			Rp 86,634.86	Rp 86,634.86
25-Mar-15			0	113.09			Rp 86,634.86	Rp 86,634.86
26-Mar-15			0	113.09			Rp 86,634.86	Rp 86,634.86
27-Mar-15			0	113.09			Rp 86,634.86	Rp 86,634.86
28-Mar-15			0	113.09			Rp 86,634.86	Rp 86,634.86
29-Mar-15			0	113.09			Rp 86,634.86	Rp 86,634.86
30-Mar-15			0	113.09			Rp 86,634.86	Rp 86,634.86
31-Mar-15	10.9		0	113.09	Rp 131,774.28		Rp 86,634.86	Rp 218,409.14
1-Apr-15		10.9	0	123.99			Rp 94,985.02	Rp 94,985.02
2-Apr-15			0.26	123.73			Rp 94,785.84	Rp 94,785.84
3-Apr-15			0	123.73			Rp 94,785.84	Rp 94,785.84
4-Apr-15			8.74	114.99			Rp 88,090.39	Rp 88,090.39
5-Apr-15			0	114.99			Rp 88,090.39	Rp 88,090.39
6-Apr-15			0	114.99			Rp 88,090.39	Rp 88,090.39
7-Apr-15			0	114.99			Rp 88,090.39	Rp 88,090.39
8-Apr-15			0	114.99			Rp 88,090.39	Rp 88,090.39
9-Apr-15			0	114.99			Rp 88,090.39	Rp 88,090.39
10-Apr-15			0	114.99			Rp 88,090.39	Rp 88,090.39
11-Apr-15			0	114.99			Rp 88,090.39	Rp 88,090.39
12-Apr-15			0	114.99			Rp 88,090.39	Rp 88,090.39
13-Apr-15			0	114.99			Rp 88,090.39	Rp 88,090.39
14-Apr-15			0	114.99			Rp 88,090.39	Rp 88,090.39
15-Apr-15	10.9		3.49	111.5	Rp 131,774.28		Rp 85,416.81	Rp 217,191.09
16-Apr-15			0	111.5			Rp 85,416.81	Rp 85,416.81
17-Apr-15			17.7	93.8			Rp 71,857.37	Rp 71,857.37
18-Apr-15			0.55	93.25			Rp 71,436.03	Rp 71,436.03
19-Apr-15			0	93.25			Rp 71,436.03	Rp 71,436.03
20-Apr-15			0	93.25			Rp 71,436.03	Rp 71,436.03
21-Apr-15			0	93.25			Rp 71,436.03	Rp 71,436.03
22-Apr-15			0	93.25			Rp 71,436.03	Rp 71,436.03
23-Apr-15		10.9	0	104.15			Rp 79,786.19	Rp 79,786.19
24-Apr-15			0	104.15			Rp 79,786.19	Rp 79,786.19
25-Apr-15			0	104.15			Rp 79,786.19	Rp 79,786.19
26-Apr-15			0	104.15			Rp 79,786.19	Rp 79,786.19
27-Apr-15			0	104.15			Rp 79,786.19	Rp 79,786.19
28-Apr-15			0	104.15			Rp 79,786.19	Rp 79,786.19
29-Apr-15			0	104.15			Rp 79,786.19	Rp 79,786.19
30-Apr-15	10.9		0	104.15	Rp 131,774.28		Rp 79,786.19	Rp 211,560.47
1-May-15			0	104.15			Rp 79,786.19	Rp 79,786.19
2-May-15			0	104.15			Rp 79,786.19	Rp 79,786.19
3-May-15		10.9	0	115.05			Rp 88,136.35	Rp 88,136.35
4-May-15			0	115.05			Rp 88,136.35	Rp 88,136.35

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
5-May-15			1.56	113.49			Rp 86,941.28	Rp 86,941.28
6-May-15			0	113.49			Rp 86,941.28	Rp 86,941.28
7-May-15			0	113.49			Rp 86,941.28	Rp 86,941.28
8-May-15			0	113.49			Rp 86,941.28	Rp 86,941.28
9-May-15			0	113.49			Rp 86,941.28	Rp 86,941.28
10-May-15			0	113.49			Rp 86,941.28	Rp 86,941.28
11-May-15			0	113.49			Rp 86,941.28	Rp 86,941.28
12-May-15			0	113.49			Rp 86,941.28	Rp 86,941.28
13-May-15			0	113.49			Rp 86,941.28	Rp 86,941.28
14-May-15			0	113.49			Rp 86,941.28	Rp 86,941.28
15-May-15	10.9		0	113.49	Rp 131,774.28		Rp 86,941.28	Rp 218,715.56
16-May-15			0	113.49			Rp 86,941.28	Rp 86,941.28
17-May-15		10.9	0	124.39			Rp 95,291.45	Rp 95,291.45
18-May-15			0	124.39			Rp 95,291.45	Rp 95,291.45
19-May-15			0	124.39			Rp 95,291.45	Rp 95,291.45
20-May-15			0	124.39			Rp 95,291.45	Rp 95,291.45
21-May-15			0	124.39			Rp 95,291.45	Rp 95,291.45
22-May-15			0	124.39			Rp 95,291.45	Rp 95,291.45
23-May-15			0	124.39			Rp 95,291.45	Rp 95,291.45
24-May-15			0	124.39			Rp 95,291.45	Rp 95,291.45
25-May-15			0	124.39			Rp 95,291.45	Rp 95,291.45
26-May-15			0	124.39			Rp 95,291.45	Rp 95,291.45
27-May-15			0	124.39			Rp 95,291.45	Rp 95,291.45
28-May-15			1.77	122.62			Rp 93,935.50	Rp 93,935.50
29-May-15			0	122.62			Rp 93,935.50	Rp 93,935.50
30-May-15			0	122.62			Rp 93,935.50	Rp 93,935.50
31-May-15	10.9		0	122.62	Rp 131,774.28		Rp 93,935.50	Rp 225,709.78
1-Jun-15			0	122.62			Rp 93,935.50	Rp 93,935.50
2-Jun-15			0	122.62			Rp 93,935.50	Rp 93,935.50
3-Jun-15		10.9	0	133.52			Rp 102,285.67	Rp 102,285.67
4-Jun-15			0	133.52			Rp 102,285.67	Rp 102,285.67
5-Jun-15			0	133.52			Rp 102,285.67	Rp 102,285.67
6-Jun-15			0	133.52			Rp 102,285.67	Rp 102,285.67
7-Jun-15			0	133.52			Rp 102,285.67	Rp 102,285.67
8-Jun-15			0	133.52			Rp 102,285.67	Rp 102,285.67
9-Jun-15			0	133.52			Rp 102,285.67	Rp 102,285.67
10-Jun-15			0	133.52			Rp 102,285.67	Rp 102,285.67
11-Jun-15			0	133.52			Rp 102,285.67	Rp 102,285.67
12-Jun-15			0	133.52			Rp 102,285.67	Rp 102,285.67
13-Jun-15			0	133.52			Rp 102,285.67	Rp 102,285.67
14-Jun-15			1.42	132.1			Rp 101,197.85	Rp 101,197.85
15-Jun-15	10.9		0	132.1	Rp 131,774.28		Rp 101,197.85	Rp 232,972.13
16-Jun-15		10.9	0	143			Rp 109,548.01	Rp 109,548.01
17-Jun-15			0	143			Rp 109,548.01	Rp 109,548.01
18-Jun-15			0	143			Rp 109,548.01	Rp 109,548.01
19-Jun-15			0	143			Rp 109,548.01	Rp 109,548.01
20-Jun-15			0	143			Rp 109,548.01	Rp 109,548.01
21-Jun-15			3.54	139.46			Rp 106,836.12	Rp 106,836.12
22-Jun-15			0.46	139			Rp 106,483.73	Rp 106,483.73
23-Jun-15			0	139			Rp 106,483.73	Rp 106,483.73
24-Jun-15			0	139			Rp 106,483.73	Rp 106,483.73
25-Jun-15			0	139			Rp 106,483.73	Rp 106,483.73
26-Jun-15			0	139			Rp 106,483.73	Rp 106,483.73
27-Jun-15			0	139			Rp 106,483.73	Rp 106,483.73
28-Jun-15			0	139			Rp 106,483.73	Rp 106,483.73
29-Jun-15			0	139			Rp 106,483.73	Rp 106,483.73
30-Jun-15	10.9		0	139	Rp 131,774.28		Rp 106,483.73	Rp 238,258.01
1-Jul-15			0	139			Rp 106,483.73	Rp 106,483.73
2-Jul-15		10.9	0	149.9			Rp 114,833.89	Rp 114,833.89
3-Jul-15			0	149.9			Rp 114,833.89	Rp 114,833.89
4-Jul-15			0	149.9			Rp 114,833.89	Rp 114,833.89
5-Jul-15			0	149.9			Rp 114,833.89	Rp 114,833.89
6-Jul-15			1.1	148.8			Rp 113,991.22	Rp 113,991.22
7-Jul-15			0	148.8			Rp 113,991.22	Rp 113,991.22
8-Jul-15			0	148.8			Rp 113,991.22	Rp 113,991.22
9-Jul-15			0	148.8			Rp 113,991.22	Rp 113,991.22
10-Jul-15			2.79	146.01			Rp 111,853.88	Rp 111,853.88
11-Jul-15			0	146.01			Rp 111,853.88	Rp 111,853.88
12-Jul-15			0	146.01			Rp 111,853.88	Rp 111,853.88
13-Jul-15			0	146.01			Rp 111,853.88	Rp 111,853.88
14-Jul-15			2.08	143.93			Rp 110,260.46	Rp 110,260.46
15-Jul-15	10.9		0	143.93	Rp 131,774.28		Rp 110,260.46	Rp 242,034.74
16-Jul-15			0	143.93			Rp 110,260.46	Rp 110,260.46
17-Jul-15			0	143.93			Rp 110,260.46	Rp 110,260.46

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
18-Jul-15			1.64	142.29			Rp 109,004.10	Rp 109,004.10
19-Jul-15		10.9	0	153.19			Rp 117,354.26	Rp 117,354.26
20-Jul-15			0	153.19			Rp 117,354.26	Rp 117,354.26
21-Jul-15			0	153.19			Rp 117,354.26	Rp 117,354.26
22-Jul-15			0	153.19			Rp 117,354.26	Rp 117,354.26
23-Jul-15			0	153.19			Rp 117,354.26	Rp 117,354.26
24-Jul-15			0	153.19			Rp 117,354.26	Rp 117,354.26
25-Jul-15			0	153.19			Rp 117,354.26	Rp 117,354.26
26-Jul-15			0	153.19			Rp 117,354.26	Rp 117,354.26
27-Jul-15			0	153.19			Rp 117,354.26	Rp 117,354.26
28-Jul-15			0	153.19			Rp 117,354.26	Rp 117,354.26
29-Jul-15			0	153.19			Rp 117,354.26	Rp 117,354.26
30-Jul-15			0	153.19			Rp 117,354.26	Rp 117,354.26
31-Jul-15	10.9		0	153.19	Rp 131,774.28		Rp 117,354.26	Rp 249,128.54
1-Aug-15			0	153.19			Rp 117,354.26	Rp 117,354.26
2-Aug-15		10.9	0	164.09			Rp 125,704.43	Rp 125,704.43
3-Aug-15			0	164.09			Rp 125,704.43	Rp 125,704.43
4-Aug-15			0	164.09			Rp 125,704.43	Rp 125,704.43
5-Aug-15			0	164.09			Rp 125,704.43	Rp 125,704.43
6-Aug-15			0	164.09			Rp 125,704.43	Rp 125,704.43
7-Aug-15			0	164.09			Rp 125,704.43	Rp 125,704.43
8-Aug-15			0	164.09			Rp 125,704.43	Rp 125,704.43
9-Aug-15			0	164.09			Rp 125,704.43	Rp 125,704.43
10-Aug-15			0	164.09			Rp 125,704.43	Rp 125,704.43
11-Aug-15			0	164.09			Rp 125,704.43	Rp 125,704.43
12-Aug-15			3.96	160.13			Rp 122,670.79	Rp 122,670.79
13-Aug-15			0	160.13			Rp 122,670.79	Rp 122,670.79
14-Aug-15			0	160.13			Rp 122,670.79	Rp 122,670.79
15-Aug-15	10.9		0	160.13	Rp 131,774.28		Rp 122,670.79	Rp 254,445.07
16-Aug-15			0	160.13			Rp 122,670.79	Rp 122,670.79
17-Aug-15		10.9	9.93	161.1			Rp 123,413.88	Rp 123,413.88
18-Aug-15			0	161.1			Rp 123,413.88	Rp 123,413.88
19-Aug-15			0	161.1			Rp 123,413.88	Rp 123,413.88
20-Aug-15			0	161.1			Rp 123,413.88	Rp 123,413.88
21-Aug-15			0	161.1			Rp 123,413.88	Rp 123,413.88
22-Aug-15			0	161.1			Rp 123,413.88	Rp 123,413.88
23-Aug-15			0	161.1			Rp 123,413.88	Rp 123,413.88
24-Aug-15			0	161.1			Rp 123,413.88	Rp 123,413.88
25-Aug-15			0	161.1			Rp 123,413.88	Rp 123,413.88
26-Aug-15			0	161.1			Rp 123,413.88	Rp 123,413.88
27-Aug-15			1.12	159.98			Rp 122,555.88	Rp 122,555.88
28-Aug-15			0	159.98			Rp 122,555.88	Rp 122,555.88
29-Aug-15			0	159.98			Rp 122,555.88	Rp 122,555.88
30-Aug-15			0	159.98			Rp 122,555.88	Rp 122,555.88
31-Aug-15	10.9		0	159.98	Rp 131,774.28		Rp 122,555.88	Rp 254,330.16
1-Sep-15			3.02	156.96			Rp 120,242.35	Rp 120,242.35
2-Sep-15		10.9	0.72	167.14			Rp 128,040.94	Rp 128,040.94
3-Sep-15			3.57	163.57			Rp 125,306.07	Rp 125,306.07
4-Sep-15			0	163.57			Rp 125,306.07	Rp 125,306.07
5-Sep-15			0	163.57			Rp 125,306.07	Rp 125,306.07
6-Sep-15			0	163.57			Rp 125,306.07	Rp 125,306.07
7-Sep-15			0	163.57			Rp 125,306.07	Rp 125,306.07
8-Sep-15			0	163.57			Rp 125,306.07	Rp 125,306.07
9-Sep-15			0	163.57			Rp 125,306.07	Rp 125,306.07
10-Sep-15			0	163.57			Rp 125,306.07	Rp 125,306.07
11-Sep-15			0	163.57			Rp 125,306.07	Rp 125,306.07
12-Sep-15			0	163.57			Rp 125,306.07	Rp 125,306.07
13-Sep-15			0.51	163.06			Rp 124,915.37	Rp 124,915.37
14-Sep-15			0	163.06			Rp 124,915.37	Rp 124,915.37
15-Sep-15	10.9		0	163.06	Rp 131,774.28		Rp 124,915.37	Rp 256,689.65
16-Sep-15			0	163.06			Rp 124,915.37	Rp 124,915.37
17-Sep-15			0	163.06			Rp 124,915.37	Rp 124,915.37
18-Sep-15		10.9	0	173.96			Rp 133,265.54	Rp 133,265.54
19-Sep-15			0	173.96			Rp 133,265.54	Rp 133,265.54
20-Sep-15			0	173.96			Rp 133,265.54	Rp 133,265.54
21-Sep-15			0	173.96			Rp 133,265.54	Rp 133,265.54
22-Sep-15			0	173.96			Rp 133,265.54	Rp 133,265.54
23-Sep-15			0	173.96			Rp 133,265.54	Rp 133,265.54
24-Sep-15			0	173.96			Rp 133,265.54	Rp 133,265.54
25-Sep-15			0	173.96			Rp 133,265.54	Rp 133,265.54
26-Sep-15			0	173.96			Rp 133,265.54	Rp 133,265.54
27-Sep-15			0	173.96			Rp 133,265.54	Rp 133,265.54
28-Sep-15			0	173.96			Rp 133,265.54	Rp 133,265.54
29-Sep-15			0	173.96			Rp 133,265.54	Rp 133,265.54

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
30-Sep-15	10.9		0	173.96	Rp 131,774.28		Rp 133,265.54	Rp 265,039.82
1-Oct-15		10.9	0	184.86			Rp 141,615.70	Rp 141,615.70
2-Oct-15			0	184.86			Rp 141,615.70	Rp 141,615.70
3-Oct-15			0	184.86			Rp 141,615.70	Rp 141,615.70
4-Oct-15			0	184.86			Rp 141,615.70	Rp 141,615.70
5-Oct-15			0	184.86			Rp 141,615.70	Rp 141,615.70
6-Oct-15			0	184.86			Rp 141,615.70	Rp 141,615.70
7-Oct-15			0	184.86			Rp 141,615.70	Rp 141,615.70
8-Oct-15			1.43	183.43			Rp 140,520.22	Rp 140,520.22
9-Oct-15			0	183.43			Rp 140,520.22	Rp 140,520.22
10-Oct-15			0	183.43			Rp 140,520.22	Rp 140,520.22
11-Oct-15			0	183.43			Rp 140,520.22	Rp 140,520.22
12-Oct-15			1.38	182.05			Rp 139,463.04	Rp 139,463.04
13-Oct-15			0	182.05			Rp 139,463.04	Rp 139,463.04
14-Oct-15			0	182.05			Rp 139,463.04	Rp 139,463.04
15-Oct-15	10.9		0	182.05	Rp 131,774.28		Rp 139,463.04	Rp 271,237.32
16-Oct-15			0	182.05			Rp 139,463.04	Rp 139,463.04
17-Oct-15			0	182.05			Rp 139,463.04	Rp 139,463.04
18-Oct-15			0.64	181.41			Rp 138,972.76	Rp 138,972.76
19-Oct-15		10.9	0	192.31			Rp 147,322.92	Rp 147,322.92
20-Oct-15			0	192.31			Rp 147,322.92	Rp 147,322.92
21-Oct-15			0	192.31			Rp 147,322.92	Rp 147,322.92
22-Oct-15			0	192.31			Rp 147,322.92	Rp 147,322.92
23-Oct-15			0	192.31			Rp 147,322.92	Rp 147,322.92
24-Oct-15			0	192.31			Rp 147,322.92	Rp 147,322.92
25-Oct-15			0	192.31			Rp 147,322.92	Rp 147,322.92
26-Oct-15			1.63	190.68			Rp 146,074.23	Rp 146,074.23
27-Oct-15			0	190.68			Rp 146,074.23	Rp 146,074.23
28-Oct-15			0	190.68			Rp 146,074.23	Rp 146,074.23
29-Oct-15			0	190.68			Rp 146,074.23	Rp 146,074.23
30-Oct-15			0	190.68			Rp 146,074.23	Rp 146,074.23
31-Oct-15	10.9		0	190.68	Rp 131,774.28		Rp 146,074.23	Rp 277,848.51
1-Nov-15			9.42	181.26			Rp 138,857.85	Rp 138,857.85
2-Nov-15			5.07	176.19			Rp 134,973.87	Rp 134,973.87
3-Nov-15		10.9	0	187.09			Rp 143,324.04	Rp 143,324.04
4-Nov-15			0	187.09			Rp 143,324.04	Rp 143,324.04
5-Nov-15			0	187.09			Rp 143,324.04	Rp 143,324.04
6-Nov-15			0	187.09			Rp 143,324.04	Rp 143,324.04
7-Nov-15			0	187.09			Rp 143,324.04	Rp 143,324.04
8-Nov-15			0	187.09			Rp 143,324.04	Rp 143,324.04
9-Nov-15			0	187.09			Rp 143,324.04	Rp 143,324.04
10-Nov-15			0	187.09			Rp 143,324.04	Rp 143,324.04
11-Nov-15			0	187.09			Rp 143,324.04	Rp 143,324.04
12-Nov-15			0	187.09			Rp 143,324.04	Rp 143,324.04
13-Nov-15			0	187.09			Rp 143,324.04	Rp 143,324.04
14-Nov-15			0	187.09			Rp 143,324.04	Rp 143,324.04
15-Nov-15	10.9		0	187.09	Rp 131,774.28		Rp 143,324.04	Rp 275,098.32
16-Nov-15			0	187.09			Rp 143,324.04	Rp 143,324.04
17-Nov-15			0	187.09			Rp 143,324.04	Rp 143,324.04
18-Nov-15			1.74	185.35			Rp 141,991.07	Rp 141,991.07
19-Nov-15		10.9	0	196.25			Rp 150,341.24	Rp 150,341.24
20-Nov-15			0	196.25			Rp 150,341.24	Rp 150,341.24
21-Nov-15			0	196.25			Rp 150,341.24	Rp 150,341.24
22-Nov-15			0	196.25			Rp 150,341.24	Rp 150,341.24
23-Nov-15			0	196.25			Rp 150,341.24	Rp 150,341.24
24-Nov-15			0	196.25			Rp 150,341.24	Rp 150,341.24
25-Nov-15			0	196.25			Rp 150,341.24	Rp 150,341.24
26-Nov-15			0	196.25			Rp 150,341.24	Rp 150,341.24
27-Nov-15			0	196.25			Rp 150,341.24	Rp 150,341.24
28-Nov-15			0	196.25			Rp 150,341.24	Rp 150,341.24
29-Nov-15			0	196.25			Rp 150,341.24	Rp 150,341.24
30-Nov-15	10.9		0	196.25	Rp 131,774.28		Rp 150,341.24	Rp 282,115.52
1-Dec-15			0	196.25			Rp 150,341.24	Rp 150,341.24
2-Dec-15		10.9	0	207.15			Rp 158,691.40	Rp 158,691.40
3-Dec-15			0	207.15			Rp 158,691.40	Rp 158,691.40
4-Dec-15			0	207.15			Rp 158,691.40	Rp 158,691.40
5-Dec-15			0	207.15			Rp 158,691.40	Rp 158,691.40
6-Dec-15			0	207.15			Rp 158,691.40	Rp 158,691.40
7-Dec-15			0	207.15			Rp 158,691.40	Rp 158,691.40
8-Dec-15			0	207.15			Rp 158,691.40	Rp 158,691.40
9-Dec-15			0	207.15			Rp 158,691.40	Rp 158,691.40
10-Dec-15			0	207.15			Rp 158,691.40	Rp 158,691.40
11-Dec-15			0	207.15			Rp 158,691.40	Rp 158,691.40
12-Dec-15			0	207.15			Rp 158,691.40	Rp 158,691.40

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
13-Dec-15			3.67	203.48			Rp 155,879.92	Rp 155,879.92
14-Dec-15			0	203.48			Rp 155,879.92	Rp 155,879.92
15-Dec-15	10.9		0	203.48	Rp 131,774.28		Rp 155,879.92	Rp 287,654.20
16-Dec-15			0	203.48			Rp 155,879.92	Rp 155,879.92
17-Dec-15		10.9	0	214.38			Rp 164,230.09	Rp 164,230.09
18-Dec-15			0	214.38			Rp 164,230.09	Rp 164,230.09
19-Dec-15			0	214.38			Rp 164,230.09	Rp 164,230.09
20-Dec-15			0	214.38			Rp 164,230.09	Rp 164,230.09
21-Dec-15			0	214.38			Rp 164,230.09	Rp 164,230.09
22-Dec-15			0	214.38			Rp 164,230.09	Rp 164,230.09
23-Dec-15			0	214.38			Rp 164,230.09	Rp 164,230.09
24-Dec-15			0	214.38			Rp 164,230.09	Rp 164,230.09
25-Dec-15			1.56	212.82			Rp 163,035.02	Rp 163,035.02
26-Dec-15			0	212.82			Rp 163,035.02	Rp 163,035.02
27-Dec-15			0	212.82			Rp 163,035.02	Rp 163,035.02
28-Dec-15			0	212.82			Rp 163,035.02	Rp 163,035.02
29-Dec-15			0	212.82			Rp 163,035.02	Rp 163,035.02
30-Dec-15			0	212.82			Rp 163,035.02	Rp 163,035.02
31-Dec-15			0	212.82			Rp 163,035.02	Rp 163,035.02
								Rp 43,378,106.59

Replication 4

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
3-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
4-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
5-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
6-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
7-Jan-15			1.23	83.52			Rp 63,982.17	Rp 63,982.17
8-Jan-15			0	83.52			Rp 63,982.17	Rp 63,982.17
9-Jan-15			4.9	78.62			Rp 60,228.42	Rp 60,228.42
10-Jan-15			0	78.62			Rp 60,228.42	Rp 60,228.42
11-Jan-15			1.09	77.53			Rp 59,393.41	Rp 59,393.41
12-Jan-15			0	77.53			Rp 59,393.41	Rp 59,393.41
13-Jan-15			0	77.53			Rp 59,393.41	Rp 59,393.41
14-Jan-15			1.91	75.62			Rp 57,930.21	Rp 57,930.21
15-Jan-15	10.9		0	75.62	Rp 131,774.28		Rp 57,930.21	Rp 189,704.49
16-Jan-15		10.9	0	86.52			Rp 66,280.38	Rp 66,280.38
17-Jan-15			0	86.52			Rp 66,280.38	Rp 66,280.38
18-Jan-15			0	86.52			Rp 66,280.38	Rp 66,280.38
19-Jan-15			0	86.52			Rp 66,280.38	Rp 66,280.38
20-Jan-15			0	86.52			Rp 66,280.38	Rp 66,280.38
21-Jan-15			0	86.52			Rp 66,280.38	Rp 66,280.38
22-Jan-15			0	86.52			Rp 66,280.38	Rp 66,280.38
23-Jan-15			0	86.52			Rp 66,280.38	Rp 66,280.38
24-Jan-15			0	86.52			Rp 66,280.38	Rp 66,280.38
25-Jan-15			0	86.52			Rp 66,280.38	Rp 66,280.38
26-Jan-15			0	86.52			Rp 66,280.38	Rp 66,280.38
27-Jan-15			0	86.52			Rp 66,280.38	Rp 66,280.38
28-Jan-15			0	86.52			Rp 66,280.38	Rp 66,280.38
29-Jan-15			0	86.52			Rp 66,280.38	Rp 66,280.38
30-Jan-15			0	86.52			Rp 66,280.38	Rp 66,280.38
31-Jan-15	10.9		0	86.52	Rp 131,774.28		Rp 66,280.38	Rp 198,054.66
1-Feb-15			0	86.52			Rp 66,280.38	Rp 66,280.38
2-Feb-15			0	86.52			Rp 66,280.38	Rp 66,280.38
3-Feb-15		10.9	0	97.42			Rp 74,630.54	Rp 74,630.54
4-Feb-15			0	97.42			Rp 74,630.54	Rp 74,630.54
5-Feb-15			0	97.42			Rp 74,630.54	Rp 74,630.54
6-Feb-15			0	97.42			Rp 74,630.54	Rp 74,630.54
7-Feb-15			0	97.42			Rp 74,630.54	Rp 74,630.54
8-Feb-15			0	97.42			Rp 74,630.54	Rp 74,630.54
9-Feb-15			0	97.42			Rp 74,630.54	Rp 74,630.54
10-Feb-15			0	97.42			Rp 74,630.54	Rp 74,630.54
11-Feb-15			3.94	93.48			Rp 71,612.22	Rp 71,612.22
12-Feb-15			0	93.48			Rp 71,612.22	Rp 71,612.22
13-Feb-15			0	93.48			Rp 71,612.22	Rp 71,612.22
14-Feb-15			0	93.48			Rp 71,612.22	Rp 71,612.22
15-Feb-15	10.9		0	93.48	Rp 131,774.28		Rp 71,612.22	Rp 203,386.50

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
16-Feb-15			9.74	83.74			Rp 64,150.70	Rp 64,150.70
17-Feb-15			0	83.74			Rp 64,150.70	Rp 64,150.70
18-Feb-15		10.9	1.86	92.78			Rp 71,075.97	Rp 71,075.97
19-Feb-15			0	92.78			Rp 71,075.97	Rp 71,075.97
20-Feb-15			0	92.78			Rp 71,075.97	Rp 71,075.97
21-Feb-15			1.92	90.86			Rp 69,605.12	Rp 69,605.12
22-Feb-15			0	90.86			Rp 69,605.12	Rp 69,605.12
23-Feb-15			0	90.86			Rp 69,605.12	Rp 69,605.12
24-Feb-15			0	90.86			Rp 69,605.12	Rp 69,605.12
25-Feb-15			0.41	90.45			Rp 69,291.03	Rp 69,291.03
26-Feb-15			0	90.45			Rp 69,291.03	Rp 69,291.03
27-Feb-15			0	90.45			Rp 69,291.03	Rp 69,291.03
28-Feb-15	10.9		0	90.45	Rp 131,774.28		Rp 69,291.03	Rp 201,065.31
1-Mar-15			0	90.45			Rp 69,291.03	Rp 69,291.03
2-Mar-15			2.49	87.96			Rp 67,383.52	Rp 67,383.52
3-Mar-15		10.9	0	98.86			Rp 75,733.68	Rp 75,733.68
4-Mar-15			0	98.86			Rp 75,733.68	Rp 75,733.68
5-Mar-15			0	98.86			Rp 75,733.68	Rp 75,733.68
6-Mar-15			0	98.86			Rp 75,733.68	Rp 75,733.68
7-Mar-15			0	98.86			Rp 75,733.68	Rp 75,733.68
8-Mar-15			0.2	98.66			Rp 75,580.47	Rp 75,580.47
9-Mar-15			0	98.66			Rp 75,580.47	Rp 75,580.47
10-Mar-15			0	98.66			Rp 75,580.47	Rp 75,580.47
11-Mar-15			0	98.66			Rp 75,580.47	Rp 75,580.47
12-Mar-15			0	98.66			Rp 75,580.47	Rp 75,580.47
13-Mar-15			0	98.66			Rp 75,580.47	Rp 75,580.47
14-Mar-15			0	98.66			Rp 75,580.47	Rp 75,580.47
15-Mar-15	10.9		0	98.66	Rp 131,774.28		Rp 75,580.47	Rp 207,354.75
16-Mar-15			0	98.66			Rp 75,580.47	Rp 75,580.47
17-Mar-15			0	98.66			Rp 75,580.47	Rp 75,580.47
18-Mar-15		10.9	0	109.56			Rp 83,930.63	Rp 83,930.63
19-Mar-15			0	109.56			Rp 83,930.63	Rp 83,930.63
20-Mar-15			0	109.56			Rp 83,930.63	Rp 83,930.63
21-Mar-15			0	109.56			Rp 83,930.63	Rp 83,930.63
22-Mar-15			0	109.56			Rp 83,930.63	Rp 83,930.63
23-Mar-15			0	109.56			Rp 83,930.63	Rp 83,930.63
24-Mar-15			0	109.56			Rp 83,930.63	Rp 83,930.63
25-Mar-15			0	109.56			Rp 83,930.63	Rp 83,930.63
26-Mar-15			0	109.56			Rp 83,930.63	Rp 83,930.63
27-Mar-15			0	109.56			Rp 83,930.63	Rp 83,930.63
28-Mar-15			0	109.56			Rp 83,930.63	Rp 83,930.63
29-Mar-15			0	109.56			Rp 83,930.63	Rp 83,930.63
30-Mar-15			0	109.56			Rp 83,930.63	Rp 83,930.63
31-Mar-15	10.9		0	109.56	Rp 131,774.28		Rp 83,930.63	Rp 215,704.91
1-Apr-15			0	109.56			Rp 83,930.63	Rp 83,930.63
2-Apr-15		10.9	0	120.46			Rp 92,280.79	Rp 92,280.79
3-Apr-15			0	120.46			Rp 92,280.79	Rp 92,280.79
4-Apr-15			0	120.46			Rp 92,280.79	Rp 92,280.79
5-Apr-15			0	120.46			Rp 92,280.79	Rp 92,280.79
6-Apr-15			0	120.46			Rp 92,280.79	Rp 92,280.79
7-Apr-15			0	120.46			Rp 92,280.79	Rp 92,280.79
8-Apr-15			0	120.46			Rp 92,280.79	Rp 92,280.79
9-Apr-15			0	120.46			Rp 92,280.79	Rp 92,280.79
10-Apr-15			0	120.46			Rp 92,280.79	Rp 92,280.79
11-Apr-15			0	120.46			Rp 92,280.79	Rp 92,280.79
12-Apr-15			0	120.46			Rp 92,280.79	Rp 92,280.79
13-Apr-15			0	120.46			Rp 92,280.79	Rp 92,280.79
14-Apr-15			0	120.46			Rp 92,280.79	Rp 92,280.79
15-Apr-15	10.9		0	120.46	Rp 131,774.28		Rp 92,280.79	Rp 224,055.07
16-Apr-15			0	120.46			Rp 92,280.79	Rp 92,280.79
17-Apr-15		10.9	0	131.36			Rp 100,630.96	Rp 100,630.96
18-Apr-15			3.66	127.7			Rp 97,827.14	Rp 97,827.14
19-Apr-15			0	127.7			Rp 97,827.14	Rp 97,827.14
20-Apr-15			0	127.7			Rp 97,827.14	Rp 97,827.14
21-Apr-15			0	127.7			Rp 97,827.14	Rp 97,827.14
22-Apr-15			0	127.7			Rp 97,827.14	Rp 97,827.14
23-Apr-15			0	127.7			Rp 97,827.14	Rp 97,827.14
24-Apr-15			0	127.7			Rp 97,827.14	Rp 97,827.14
25-Apr-15			0	127.7			Rp 97,827.14	Rp 97,827.14
26-Apr-15			0	127.7			Rp 97,827.14	Rp 97,827.14
27-Apr-15			0	127.7			Rp 97,827.14	Rp 97,827.14
28-Apr-15			0	127.7			Rp 97,827.14	Rp 97,827.14
29-Apr-15			0	127.7			Rp 97,827.14	Rp 97,827.14
30-Apr-15	10.9		0	127.7	Rp 131,774.28		Rp 97,827.14	Rp 229,601.42

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
1-May-15			1.16	126.54			Rp 96,938.50	Rp 96,938.50
2-May-15		10.9	0	137.44			Rp 105,288.66	Rp 105,288.66
3-May-15			0	137.44			Rp 105,288.66	Rp 105,288.66
4-May-15			0	137.44			Rp 105,288.66	Rp 105,288.66
5-May-15			0	137.44			Rp 105,288.66	Rp 105,288.66
6-May-15			0	137.44			Rp 105,288.66	Rp 105,288.66
7-May-15			0	137.44			Rp 105,288.66	Rp 105,288.66
8-May-15			2.58	134.86			Rp 103,312.20	Rp 103,312.20
9-May-15			0	134.86			Rp 103,312.20	Rp 103,312.20
10-May-15			2.18	132.68			Rp 101,642.17	Rp 101,642.17
11-May-15			0	132.68			Rp 101,642.17	Rp 101,642.17
12-May-15			0	132.68			Rp 101,642.17	Rp 101,642.17
13-May-15			0.43	132.25			Rp 101,312.76	Rp 101,312.76
14-May-15			0	132.25			Rp 101,312.76	Rp 101,312.76
15-May-15	10.9		0	132.25	Rp 131,774.28		Rp 101,312.76	Rp 233,087.04
16-May-15			0	132.25			Rp 101,312.76	Rp 101,312.76
17-May-15			0	132.25			Rp 101,312.76	Rp 101,312.76
18-May-15		10.9	0	143.15			Rp 109,662.92	Rp 109,662.92
19-May-15			0	143.15			Rp 109,662.92	Rp 109,662.92
20-May-15			0	143.15			Rp 109,662.92	Rp 109,662.92
21-May-15			8.42	134.73			Rp 103,212.61	Rp 103,212.61
22-May-15			0	134.73			Rp 103,212.61	Rp 103,212.61
23-May-15			1.5	133.23			Rp 102,063.51	Rp 102,063.51
24-May-15			0	133.23			Rp 102,063.51	Rp 102,063.51
25-May-15			0	133.23			Rp 102,063.51	Rp 102,063.51
26-May-15			8.14	125.09			Rp 95,827.70	Rp 95,827.70
27-May-15			0	125.09			Rp 95,827.70	Rp 95,827.70
28-May-15			0	125.09			Rp 95,827.70	Rp 95,827.70
29-May-15			0	125.09			Rp 95,827.70	Rp 95,827.70
30-May-15			0	125.09			Rp 95,827.70	Rp 95,827.70
31-May-15	10.9		1	124.09	Rp 131,774.28		Rp 95,061.63	Rp 226,835.91
1-Jun-15			0	124.09			Rp 95,061.63	Rp 95,061.63
2-Jun-15			0	124.09			Rp 95,061.63	Rp 95,061.63
3-Jun-15		10.9	0	134.99			Rp 103,411.79	Rp 103,411.79
4-Jun-15			0	134.99			Rp 103,411.79	Rp 103,411.79
5-Jun-15			1.78	133.21			Rp 102,048.18	Rp 102,048.18
6-Jun-15			0	133.21			Rp 102,048.18	Rp 102,048.18
7-Jun-15			0	133.21			Rp 102,048.18	Rp 102,048.18
8-Jun-15			0	133.21			Rp 102,048.18	Rp 102,048.18
9-Jun-15			1.74	131.47			Rp 100,715.22	Rp 100,715.22
10-Jun-15			0	131.47			Rp 100,715.22	Rp 100,715.22
11-Jun-15			0	131.47			Rp 100,715.22	Rp 100,715.22
12-Jun-15			0	131.47			Rp 100,715.22	Rp 100,715.22
13-Jun-15			0	131.47			Rp 100,715.22	Rp 100,715.22
14-Jun-15			17.31	114.16			Rp 87,454.55	Rp 87,454.55
15-Jun-15	10.9		0	114.16	Rp 131,774.28		Rp 87,454.55	Rp 219,228.83
16-Jun-15			0	114.16			Rp 87,454.55	Rp 87,454.55
17-Jun-15			0	114.16			Rp 87,454.55	Rp 87,454.55
18-Jun-15		10.9	1.54	123.52			Rp 94,624.97	Rp 94,624.97
19-Jun-15			0	123.52			Rp 94,624.97	Rp 94,624.97
20-Jun-15			0	123.52			Rp 94,624.97	Rp 94,624.97
21-Jun-15			0	123.52			Rp 94,624.97	Rp 94,624.97
22-Jun-15			0	123.52			Rp 94,624.97	Rp 94,624.97
23-Jun-15			0	123.52			Rp 94,624.97	Rp 94,624.97
24-Jun-15			0	123.52			Rp 94,624.97	Rp 94,624.97
25-Jun-15			0	123.52			Rp 94,624.97	Rp 94,624.97
26-Jun-15			0	123.52			Rp 94,624.97	Rp 94,624.97
27-Jun-15			0	123.52			Rp 94,624.97	Rp 94,624.97
28-Jun-15			0	123.52			Rp 94,624.97	Rp 94,624.97
29-Jun-15			0	123.52			Rp 94,624.97	Rp 94,624.97
30-Jun-15	10.9		0	123.52	Rp 131,774.28		Rp 94,624.97	Rp 226,399.25
1-Jul-15			0	123.52			Rp 94,624.97	Rp 94,624.97
2-Jul-15			0	123.52			Rp 94,624.97	Rp 94,624.97
3-Jul-15		10.9	0	134.42			Rp 102,975.13	Rp 102,975.13
4-Jul-15			0	134.42			Rp 102,975.13	Rp 102,975.13
5-Jul-15			0	134.42			Rp 102,975.13	Rp 102,975.13
6-Jul-15			0	134.42			Rp 102,975.13	Rp 102,975.13
7-Jul-15			0	134.42			Rp 102,975.13	Rp 102,975.13
8-Jul-15			0	134.42			Rp 102,975.13	Rp 102,975.13
9-Jul-15			0	134.42			Rp 102,975.13	Rp 102,975.13
10-Jul-15			0	134.42			Rp 102,975.13	Rp 102,975.13
11-Jul-15			0	134.42			Rp 102,975.13	Rp 102,975.13
12-Jul-15			0	134.42			Rp 102,975.13	Rp 102,975.13
13-Jul-15			0	134.42			Rp 102,975.13	Rp 102,975.13

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
14-Jul-15			0	134.42			Rp 102,975.13	Rp 102,975.13
15-Jul-15	10.9		0	134.42	Rp 131,774.28		Rp 102,975.13	Rp 234,749.41
16-Jul-15			0	134.42			Rp 102,975.13	Rp 102,975.13
17-Jul-15			0	134.42			Rp 102,975.13	Rp 102,975.13
18-Jul-15			2.12	132.3			Rp 101,351.06	Rp 101,351.06
19-Jul-15		10.9	0	143.2			Rp 109,701.22	Rp 109,701.22
20-Jul-15			0	143.2			Rp 109,701.22	Rp 109,701.22
21-Jul-15			0	143.2			Rp 109,701.22	Rp 109,701.22
22-Jul-15			0	143.2			Rp 109,701.22	Rp 109,701.22
23-Jul-15			9.09	134.11			Rp 102,737.65	Rp 102,737.65
24-Jul-15			0	134.11			Rp 102,737.65	Rp 102,737.65
25-Jul-15			0	134.11			Rp 102,737.65	Rp 102,737.65
26-Jul-15			0.45	133.66			Rp 102,392.92	Rp 102,392.92
27-Jul-15			0	133.66			Rp 102,392.92	Rp 102,392.92
28-Jul-15			0	133.66			Rp 102,392.92	Rp 102,392.92
29-Jul-15			0	133.66			Rp 102,392.92	Rp 102,392.92
30-Jul-15			0	133.66			Rp 102,392.92	Rp 102,392.92
31-Jul-15	10.9		0	133.66	Rp 131,774.28		Rp 102,392.92	Rp 234,167.20
1-Aug-15			0	133.66			Rp 102,392.92	Rp 102,392.92
2-Aug-15			0	133.66			Rp 102,392.92	Rp 102,392.92
3-Aug-15		10.9	0	144.56			Rp 110,743.08	Rp 110,743.08
4-Aug-15			0	144.56			Rp 110,743.08	Rp 110,743.08
5-Aug-15			0	144.56			Rp 110,743.08	Rp 110,743.08
6-Aug-15			0	144.56			Rp 110,743.08	Rp 110,743.08
7-Aug-15			3.92	140.64			Rp 107,740.08	Rp 107,740.08
8-Aug-15			0	140.64			Rp 107,740.08	Rp 107,740.08
9-Aug-15			0	140.64			Rp 107,740.08	Rp 107,740.08
10-Aug-15			0	140.64			Rp 107,740.08	Rp 107,740.08
11-Aug-15			0	140.64			Rp 107,740.08	Rp 107,740.08
12-Aug-15			0	140.64			Rp 107,740.08	Rp 107,740.08
13-Aug-15			0	140.64			Rp 107,740.08	Rp 107,740.08
14-Aug-15			0	140.64			Rp 107,740.08	Rp 107,740.08
15-Aug-15	10.9		0	140.64	Rp 131,774.28		Rp 107,740.08	Rp 239,514.36
16-Aug-15			0	140.64			Rp 107,740.08	Rp 107,740.08
17-Aug-15			1.45	139.19			Rp 106,629.28	Rp 106,629.28
18-Aug-15		10.9	0	150.09			Rp 114,979.45	Rp 114,979.45
19-Aug-15			0	150.09			Rp 114,979.45	Rp 114,979.45
20-Aug-15			3.91	146.18			Rp 111,984.11	Rp 111,984.11
21-Aug-15			9.5	136.68			Rp 104,706.45	Rp 104,706.45
22-Aug-15			0	136.68			Rp 104,706.45	Rp 104,706.45
23-Aug-15			0	136.68			Rp 104,706.45	Rp 104,706.45
24-Aug-15			8.87	127.81			Rp 97,911.41	Rp 97,911.41
25-Aug-15			0	127.81			Rp 97,911.41	Rp 97,911.41
26-Aug-15			0	127.81			Rp 97,911.41	Rp 97,911.41
27-Aug-15			0	127.81			Rp 97,911.41	Rp 97,911.41
28-Aug-15			0	127.81			Rp 97,911.41	Rp 97,911.41
29-Aug-15			0	127.81			Rp 97,911.41	Rp 97,911.41
30-Aug-15			0	127.81			Rp 97,911.41	Rp 97,911.41
31-Aug-15	10.9		0	127.81	Rp 131,774.28		Rp 97,911.41	Rp 229,685.69
1-Sep-15			0	127.81			Rp 97,911.41	Rp 97,911.41
2-Sep-15		10.9	0	138.71			Rp 106,261.57	Rp 106,261.57
3-Sep-15			0	138.71			Rp 106,261.57	Rp 106,261.57
4-Sep-15			0	138.71			Rp 106,261.57	Rp 106,261.57
5-Sep-15			0	138.71			Rp 106,261.57	Rp 106,261.57
6-Sep-15			0	138.71			Rp 106,261.57	Rp 106,261.57
7-Sep-15			1.04	137.67			Rp 105,464.86	Rp 105,464.86
8-Sep-15			0	137.67			Rp 105,464.86	Rp 105,464.86
9-Sep-15			0	137.67			Rp 105,464.86	Rp 105,464.86
10-Sep-15			0	137.67			Rp 105,464.86	Rp 105,464.86
11-Sep-15			0.71	136.96			Rp 104,920.95	Rp 104,920.95
12-Sep-15			0	136.96			Rp 104,920.95	Rp 104,920.95
13-Sep-15			0	136.96			Rp 104,920.95	Rp 104,920.95
14-Sep-15			0	136.96			Rp 104,920.95	Rp 104,920.95
15-Sep-15	10.9		0.71	136.25	Rp 131,774.28		Rp 104,377.04	Rp 236,151.32
16-Sep-15			0	136.25			Rp 104,377.04	Rp 104,377.04
17-Sep-15			0	136.25			Rp 104,377.04	Rp 104,377.04
18-Sep-15		10.9	0	147.15			Rp 112,727.20	Rp 112,727.20
19-Sep-15			0	147.15			Rp 112,727.20	Rp 112,727.20
20-Sep-15			0	147.15			Rp 112,727.20	Rp 112,727.20
21-Sep-15			0	147.15			Rp 112,727.20	Rp 112,727.20
22-Sep-15			0.92	146.23			Rp 112,022.42	Rp 112,022.42
23-Sep-15			3.17	143.06			Rp 109,593.97	Rp 109,593.97
24-Sep-15			0	143.06			Rp 109,593.97	Rp 109,593.97
25-Sep-15			0	143.06			Rp 109,593.97	Rp 109,593.97

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
26-Sep-15			0	143.06			Rp 109,593.97	Rp 109,593.97
27-Sep-15			0	143.06			Rp 109,593.97	Rp 109,593.97
28-Sep-15			0	143.06			Rp 109,593.97	Rp 109,593.97
29-Sep-15			0	143.06			Rp 109,593.97	Rp 109,593.97
30-Sep-15	10.9		0	143.06	Rp 131,774.28		Rp 109,593.97	Rp 241,368.25
1-Oct-15			3.63	139.43			Rp 106,813.14	Rp 106,813.14
2-Oct-15			0	139.43			Rp 106,813.14	Rp 106,813.14
3-Oct-15			0	139.43			Rp 106,813.14	Rp 106,813.14
4-Oct-15			2.37	137.06			Rp 104,997.55	Rp 104,997.55
5-Oct-15			0	137.06			Rp 104,997.55	Rp 104,997.55
6-Oct-15		10.9	0	147.96			Rp 113,347.72	Rp 113,347.72
7-Oct-15			0	147.96			Rp 113,347.72	Rp 113,347.72
8-Oct-15			0	147.96			Rp 113,347.72	Rp 113,347.72
9-Oct-15			0	147.96			Rp 113,347.72	Rp 113,347.72
10-Oct-15			0	147.96			Rp 113,347.72	Rp 113,347.72
11-Oct-15			0	147.96			Rp 113,347.72	Rp 113,347.72
12-Oct-15			0	147.96			Rp 113,347.72	Rp 113,347.72
13-Oct-15			0	147.96			Rp 113,347.72	Rp 113,347.72
14-Oct-15			0	147.96			Rp 113,347.72	Rp 113,347.72
15-Oct-15	10.9		0	147.96	Rp 131,774.28		Rp 113,347.72	Rp 245,122.00
16-Oct-15			0	147.96			Rp 113,347.72	Rp 113,347.72
17-Oct-15		10.9	0	158.86			Rp 121,697.88	Rp 121,697.88
18-Oct-15			0	158.86			Rp 121,697.88	Rp 121,697.88
19-Oct-15			0	158.86			Rp 121,697.88	Rp 121,697.88
20-Oct-15			0	158.86			Rp 121,697.88	Rp 121,697.88
21-Oct-15			0	158.86			Rp 121,697.88	Rp 121,697.88
22-Oct-15			0	158.86			Rp 121,697.88	Rp 121,697.88
23-Oct-15			0	158.86			Rp 121,697.88	Rp 121,697.88
24-Oct-15			0	158.86			Rp 121,697.88	Rp 121,697.88
25-Oct-15			0	158.86			Rp 121,697.88	Rp 121,697.88
26-Oct-15			0	158.86			Rp 121,697.88	Rp 121,697.88
27-Oct-15			0	158.86			Rp 121,697.88	Rp 121,697.88
28-Oct-15			0	158.86			Rp 121,697.88	Rp 121,697.88
29-Oct-15			0	158.86			Rp 121,697.88	Rp 121,697.88
30-Oct-15			0	158.86			Rp 121,697.88	Rp 121,697.88
31-Oct-15	10.9		0	158.86	Rp 131,774.28		Rp 121,697.88	Rp 253,472.16
1-Nov-15			0	158.86			Rp 121,697.88	Rp 121,697.88
2-Nov-15			0	158.86			Rp 121,697.88	Rp 121,697.88
3-Nov-15			0	158.86			Rp 121,697.88	Rp 121,697.88
4-Nov-15			0	158.86			Rp 121,697.88	Rp 121,697.88
5-Nov-15			0	158.86			Rp 121,697.88	Rp 121,697.88
6-Nov-15		10.9	0	169.76			Rp 130,048.04	Rp 130,048.04
7-Nov-15			0	169.76			Rp 130,048.04	Rp 130,048.04
8-Nov-15			0	169.76			Rp 130,048.04	Rp 130,048.04
9-Nov-15			0	169.76			Rp 130,048.04	Rp 130,048.04
10-Nov-15			0	169.76			Rp 130,048.04	Rp 130,048.04
11-Nov-15			0	169.76			Rp 130,048.04	Rp 130,048.04
12-Nov-15			0	169.76			Rp 130,048.04	Rp 130,048.04
13-Nov-15			0	169.76			Rp 130,048.04	Rp 130,048.04
14-Nov-15			0	169.76			Rp 130,048.04	Rp 130,048.04
15-Nov-15	10.9		1.01	168.75	Rp 131,774.28		Rp 129,274.31	Rp 261,048.59
16-Nov-15			0	168.75			Rp 129,274.31	Rp 129,274.31
17-Nov-15			16.38	152.37			Rp 116,726.09	Rp 116,726.09
18-Nov-15			0	152.37			Rp 116,726.09	Rp 116,726.09
19-Nov-15		10.9	0	163.27			Rp 125,076.25	Rp 125,076.25
20-Nov-15			0	163.27			Rp 125,076.25	Rp 125,076.25
21-Nov-15			0	163.27			Rp 125,076.25	Rp 125,076.25
22-Nov-15			0	163.27			Rp 125,076.25	Rp 125,076.25
23-Nov-15			0	163.27			Rp 125,076.25	Rp 125,076.25
24-Nov-15			0	163.27			Rp 125,076.25	Rp 125,076.25
25-Nov-15			0	163.27			Rp 125,076.25	Rp 125,076.25
26-Nov-15			1.05	162.22			Rp 124,271.88	Rp 124,271.88
27-Nov-15			0.61	161.61			Rp 123,804.57	Rp 123,804.57
28-Nov-15			0	161.61			Rp 123,804.57	Rp 123,804.57
29-Nov-15			0	161.61			Rp 123,804.57	Rp 123,804.57
30-Nov-15	10.9		0	161.61	Rp 131,774.28		Rp 123,804.57	Rp 255,578.85
1-Dec-15		10.9	0	172.51			Rp 132,154.74	Rp 132,154.74
2-Dec-15			7.8	164.71			Rp 126,179.39	Rp 126,179.39
3-Dec-15			0	164.71			Rp 126,179.39	Rp 126,179.39
4-Dec-15			0	164.71			Rp 126,179.39	Rp 126,179.39
5-Dec-15			0	164.71			Rp 126,179.39	Rp 126,179.39
6-Dec-15			0	164.71			Rp 126,179.39	Rp 126,179.39
7-Dec-15			8.77	155.94			Rp 119,460.96	Rp 119,460.96
8-Dec-15			2.78	153.16			Rp 117,331.28	Rp 117,331.28

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
9-Dec-15			0	153.16			Rp 117,331.28	Rp 117,331.28
10-Dec-15			0	153.16			Rp 117,331.28	Rp 117,331.28
11-Dec-15			0	153.16			Rp 117,331.28	Rp 117,331.28
12-Dec-15			0	153.16			Rp 117,331.28	Rp 117,331.28
13-Dec-15			0	153.16			Rp 117,331.28	Rp 117,331.28
14-Dec-15			0	153.16			Rp 117,331.28	Rp 117,331.28
15-Dec-15	10.9		0	153.16	Rp 131,774.28		Rp 117,331.28	Rp 249,105.56
16-Dec-15			0	153.16			Rp 117,331.28	Rp 117,331.28
17-Dec-15			0	153.16			Rp 117,331.28	Rp 117,331.28
18-Dec-15			0.79	152.37			Rp 116,726.09	Rp 116,726.09
19-Dec-15		10.9	0	163.27			Rp 125,076.25	Rp 125,076.25
20-Dec-15			0	163.27			Rp 125,076.25	Rp 125,076.25
21-Dec-15			0	163.27			Rp 125,076.25	Rp 125,076.25
22-Dec-15			0	163.27			Rp 125,076.25	Rp 125,076.25
23-Dec-15			0	163.27			Rp 125,076.25	Rp 125,076.25
24-Dec-15			0	163.27			Rp 125,076.25	Rp 125,076.25
25-Dec-15			17.29	145.98			Rp 111,830.90	Rp 111,830.90
26-Dec-15			0	145.98			Rp 111,830.90	Rp 111,830.90
27-Dec-15			0	145.98			Rp 111,830.90	Rp 111,830.90
28-Dec-15			0	145.98			Rp 111,830.90	Rp 111,830.90
29-Dec-15			0	145.98			Rp 111,830.90	Rp 111,830.90
30-Dec-15			0	145.98			Rp 111,830.90	Rp 111,830.90
31-Dec-15			0	145.98			Rp 111,830.90	Rp 111,830.90
								Rp 39,176,779.53

Replication 5

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
3-Jan-15			6.11	78.64			Rp 60,243.74	Rp 60,243.74
4-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
5-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
6-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
7-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
8-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
9-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
10-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
11-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
12-Jan-15			8.43	70.21			Rp 53,785.77	Rp 53,785.77
13-Jan-15			0	70.21			Rp 53,785.77	Rp 53,785.77
14-Jan-15			0	70.21			Rp 53,785.77	Rp 53,785.77
15-Jan-15	10.9		0	70.21	Rp 131,774.28		Rp 53,785.77	Rp 185,560.05
16-Jan-15			0	70.21			Rp 53,785.77	Rp 53,785.77
17-Jan-15		10.9	0	81.11			Rp 62,135.94	Rp 62,135.94
18-Jan-15			0	81.11			Rp 62,135.94	Rp 62,135.94
19-Jan-15			0.84	80.27			Rp 61,492.44	Rp 61,492.44
20-Jan-15			0	80.27			Rp 61,492.44	Rp 61,492.44
21-Jan-15			2.63	77.64			Rp 59,477.67	Rp 59,477.67
22-Jan-15			0	77.64			Rp 59,477.67	Rp 59,477.67
23-Jan-15			0	77.64			Rp 59,477.67	Rp 59,477.67
24-Jan-15			0	77.64			Rp 59,477.67	Rp 59,477.67
25-Jan-15			0	77.64			Rp 59,477.67	Rp 59,477.67
26-Jan-15			0	77.64			Rp 59,477.67	Rp 59,477.67
27-Jan-15			0	77.64			Rp 59,477.67	Rp 59,477.67
28-Jan-15			18.74	58.9			Rp 45,121.52	Rp 45,121.52
29-Jan-15			0	58.9			Rp 45,121.52	Rp 45,121.52
30-Jan-15			0.27	58.63			Rp 44,914.68	Rp 44,914.68
31-Jan-15	10.9		0	58.63	Rp 131,774.28		Rp 44,914.68	Rp 176,688.96
1-Feb-15			1.73	56.9			Rp 43,589.38	Rp 43,589.38
2-Feb-15			0	56.9			Rp 43,589.38	Rp 43,589.38
3-Feb-15		10.9	0	67.8			Rp 51,939.55	Rp 51,939.55
4-Feb-15			0	67.8			Rp 51,939.55	Rp 51,939.55
5-Feb-15			0	67.8			Rp 51,939.55	Rp 51,939.55
6-Feb-15			0.62	67.18			Rp 51,464.58	Rp 51,464.58
7-Feb-15			0	67.18			Rp 51,464.58	Rp 51,464.58
8-Feb-15			1.97	65.21			Rp 49,955.42	Rp 49,955.42
9-Feb-15			0	65.21			Rp 49,955.42	Rp 49,955.42
10-Feb-15			0	65.21			Rp 49,955.42	Rp 49,955.42
11-Feb-15			3.43	61.78			Rp 47,327.80	Rp 47,327.80

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
12-Feb-15			0	61.78			Rp 47,327.80	Rp 47,327.80
13-Feb-15			0	61.78			Rp 47,327.80	Rp 47,327.80
14-Feb-15			1.87	59.91			Rp 45,895.25	Rp 45,895.25
15-Feb-15	10.9		0	59.91	Rp 131,774.28		Rp 45,895.25	Rp 177,669.53
16-Feb-15			0	59.91			Rp 45,895.25	Rp 45,895.25
17-Feb-15			0	59.91			Rp 45,895.25	Rp 45,895.25
18-Feb-15		10.9	0	70.81			Rp 54,245.42	Rp 54,245.42
19-Feb-15			0	70.81			Rp 54,245.42	Rp 54,245.42
20-Feb-15			0	70.81			Rp 54,245.42	Rp 54,245.42
21-Feb-15			0	70.81			Rp 54,245.42	Rp 54,245.42
22-Feb-15			0	70.81			Rp 54,245.42	Rp 54,245.42
23-Feb-15			0	70.81			Rp 54,245.42	Rp 54,245.42
24-Feb-15			0	70.81			Rp 54,245.42	Rp 54,245.42
25-Feb-15			0	70.81			Rp 54,245.42	Rp 54,245.42
26-Feb-15			0	70.81			Rp 54,245.42	Rp 54,245.42
27-Feb-15			0	70.81			Rp 54,245.42	Rp 54,245.42
28-Feb-15	10.9		0	70.81	Rp 131,774.28		Rp 54,245.42	Rp 186,019.70
1-Mar-15			0	70.81			Rp 54,245.42	Rp 54,245.42
2-Mar-15			0.04	70.77			Rp 54,214.77	Rp 54,214.77
3-Mar-15			0	70.77			Rp 54,214.77	Rp 54,214.77
4-Mar-15			0	70.77			Rp 54,214.77	Rp 54,214.77
5-Mar-15			0	70.77			Rp 54,214.77	Rp 54,214.77
6-Mar-15			0	70.77			Rp 54,214.77	Rp 54,214.77
7-Mar-15			0	70.77			Rp 54,214.77	Rp 54,214.77
8-Mar-15		10.9	0	81.67			Rp 62,564.94	Rp 62,564.94
9-Mar-15			0	81.67			Rp 62,564.94	Rp 62,564.94
10-Mar-15			0	81.67			Rp 62,564.94	Rp 62,564.94
11-Mar-15			0	81.67			Rp 62,564.94	Rp 62,564.94
12-Mar-15			0	81.67			Rp 62,564.94	Rp 62,564.94
13-Mar-15			0	81.67			Rp 62,564.94	Rp 62,564.94
14-Mar-15			3.45	78.22			Rp 59,922.00	Rp 59,922.00
15-Mar-15	10.9		0	78.22	Rp 131,774.28		Rp 59,922.00	Rp 191,696.28
16-Mar-15			0	78.22			Rp 59,922.00	Rp 59,922.00
17-Mar-15		10.9	0	89.12			Rp 68,272.16	Rp 68,272.16
18-Mar-15			0	89.12			Rp 68,272.16	Rp 68,272.16
19-Mar-15			0	89.12			Rp 68,272.16	Rp 68,272.16
20-Mar-15			0	89.12			Rp 68,272.16	Rp 68,272.16
21-Mar-15			0	89.12			Rp 68,272.16	Rp 68,272.16
22-Mar-15			0	89.12			Rp 68,272.16	Rp 68,272.16
23-Mar-15			0	89.12			Rp 68,272.16	Rp 68,272.16
24-Mar-15			0	89.12			Rp 68,272.16	Rp 68,272.16
25-Mar-15			0	89.12			Rp 68,272.16	Rp 68,272.16
26-Mar-15			0	89.12			Rp 68,272.16	Rp 68,272.16
27-Mar-15			4.43	84.69			Rp 64,878.47	Rp 64,878.47
28-Mar-15			0	84.69			Rp 64,878.47	Rp 64,878.47
29-Mar-15			0	84.69			Rp 64,878.47	Rp 64,878.47
30-Mar-15			0	84.69			Rp 64,878.47	Rp 64,878.47
31-Mar-15	10.9		0	84.69	Rp 131,774.28		Rp 64,878.47	Rp 196,652.75
1-Apr-15			0	84.69			Rp 64,878.47	Rp 64,878.47
2-Apr-15			1.38	83.31			Rp 63,821.29	Rp 63,821.29
3-Apr-15			0	83.31			Rp 63,821.29	Rp 63,821.29
4-Apr-15		10.9	0	94.21			Rp 72,171.45	Rp 72,171.45
5-Apr-15			0	94.21			Rp 72,171.45	Rp 72,171.45
6-Apr-15			8.33	85.88			Rp 65,790.09	Rp 65,790.09
7-Apr-15			0	85.88			Rp 65,790.09	Rp 65,790.09
8-Apr-15			0	85.88			Rp 65,790.09	Rp 65,790.09
9-Apr-15			0	85.88			Rp 65,790.09	Rp 65,790.09
10-Apr-15			0	85.88			Rp 65,790.09	Rp 65,790.09
11-Apr-15			2.66	83.22			Rp 63,752.35	Rp 63,752.35
12-Apr-15			0	83.22			Rp 63,752.35	Rp 63,752.35
13-Apr-15			0	83.22			Rp 63,752.35	Rp 63,752.35
14-Apr-15			0	83.22			Rp 63,752.35	Rp 63,752.35
15-Apr-15	10.9		0	83.22	Rp 131,774.28		Rp 63,752.35	Rp 195,526.63
16-Apr-15			0	83.22			Rp 63,752.35	Rp 63,752.35
17-Apr-15			3.66	79.56			Rp 60,948.53	Rp 60,948.53
18-Apr-15		10.9	0	90.46			Rp 69,298.69	Rp 69,298.69
19-Apr-15			1.4	89.06			Rp 68,226.19	Rp 68,226.19
20-Apr-15			0	89.06			Rp 68,226.19	Rp 68,226.19
21-Apr-15			0	89.06			Rp 68,226.19	Rp 68,226.19
22-Apr-15			0	89.06			Rp 68,226.19	Rp 68,226.19
23-Apr-15			0	89.06			Rp 68,226.19	Rp 68,226.19
24-Apr-15			0	89.06			Rp 68,226.19	Rp 68,226.19
25-Apr-15			0	89.06			Rp 68,226.19	Rp 68,226.19
26-Apr-15			0	89.06			Rp 68,226.19	Rp 68,226.19

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
27-Apr-15			0	89.06			Rp 68,226.19	Rp 68,226.19
28-Apr-15			0	89.06			Rp 68,226.19	Rp 68,226.19
29-Apr-15			0	89.06			Rp 68,226.19	Rp 68,226.19
30-Apr-15	10.9		1.48	87.58	Rp 131,774.28		Rp 67,092.41	Rp 198,866.69
1-May-15			0	87.58			Rp 67,092.41	Rp 67,092.41
2-May-15			0	87.58			Rp 67,092.41	Rp 67,092.41
3-May-15			0	87.58			Rp 67,092.41	Rp 67,092.41
4-May-15			0	87.58			Rp 67,092.41	Rp 67,092.41
5-May-15			0	87.58			Rp 67,092.41	Rp 67,092.41
6-May-15		10.9	0	98.48			Rp 75,442.57	Rp 75,442.57
7-May-15			1.11	97.37			Rp 74,592.24	Rp 74,592.24
8-May-15			0	97.37			Rp 74,592.24	Rp 74,592.24
9-May-15			0	97.37			Rp 74,592.24	Rp 74,592.24
10-May-15			0	97.37			Rp 74,592.24	Rp 74,592.24
11-May-15			0	97.37			Rp 74,592.24	Rp 74,592.24
12-May-15			0	97.37			Rp 74,592.24	Rp 74,592.24
13-May-15			0	97.37			Rp 74,592.24	Rp 74,592.24
14-May-15			0	97.37			Rp 74,592.24	Rp 74,592.24
15-May-15	10.9		0	97.37	Rp 131,774.28		Rp 74,592.24	Rp 206,366.52
16-May-15			1.92	95.45			Rp 73,121.38	Rp 73,121.38
17-May-15		10.9	0	106.35			Rp 81,471.54	Rp 81,471.54
18-May-15			0	106.35			Rp 81,471.54	Rp 81,471.54
19-May-15			0	106.35			Rp 81,471.54	Rp 81,471.54
20-May-15			0	106.35			Rp 81,471.54	Rp 81,471.54
21-May-15			0	106.35			Rp 81,471.54	Rp 81,471.54
22-May-15			0	106.35			Rp 81,471.54	Rp 81,471.54
23-May-15			0	106.35			Rp 81,471.54	Rp 81,471.54
24-May-15			0	106.35			Rp 81,471.54	Rp 81,471.54
25-May-15			0	106.35			Rp 81,471.54	Rp 81,471.54
26-May-15			1.89	104.46			Rp 80,023.67	Rp 80,023.67
27-May-15			2.07	102.39			Rp 78,437.91	Rp 78,437.91
28-May-15			0	102.39			Rp 78,437.91	Rp 78,437.91
29-May-15			0	102.39			Rp 78,437.91	Rp 78,437.91
30-May-15			0	102.39			Rp 78,437.91	Rp 78,437.91
31-May-15	10.9		0	102.39	Rp 131,774.28		Rp 78,437.91	Rp 210,212.19
1-Jun-15			0	102.39			Rp 78,437.91	Rp 78,437.91
2-Jun-15			0	102.39			Rp 78,437.91	Rp 78,437.91
3-Jun-15		10.9	0	113.29			Rp 86,788.07	Rp 86,788.07
4-Jun-15			0	113.29			Rp 86,788.07	Rp 86,788.07
5-Jun-15			0	113.29			Rp 86,788.07	Rp 86,788.07
6-Jun-15			0	113.29			Rp 86,788.07	Rp 86,788.07
7-Jun-15			0	113.29			Rp 86,788.07	Rp 86,788.07
8-Jun-15			0	113.29			Rp 86,788.07	Rp 86,788.07
9-Jun-15			0	113.29			Rp 86,788.07	Rp 86,788.07
10-Jun-15			0	113.29			Rp 86,788.07	Rp 86,788.07
11-Jun-15			0	113.29			Rp 86,788.07	Rp 86,788.07
12-Jun-15			0	113.29			Rp 86,788.07	Rp 86,788.07
13-Jun-15			0	113.29			Rp 86,788.07	Rp 86,788.07
14-Jun-15			0	113.29			Rp 86,788.07	Rp 86,788.07
15-Jun-15	10.9		0	113.29	Rp 131,774.28		Rp 86,788.07	Rp 218,562.35
16-Jun-15		10.9	0	124.19			Rp 95,138.23	Rp 95,138.23
17-Jun-15			0	124.19			Rp 95,138.23	Rp 95,138.23
18-Jun-15			0	124.19			Rp 95,138.23	Rp 95,138.23
19-Jun-15			0	124.19			Rp 95,138.23	Rp 95,138.23
20-Jun-15			0	124.19			Rp 95,138.23	Rp 95,138.23
21-Jun-15			0	124.19			Rp 95,138.23	Rp 95,138.23
22-Jun-15			0	124.19			Rp 95,138.23	Rp 95,138.23
23-Jun-15			0	124.19			Rp 95,138.23	Rp 95,138.23
24-Jun-15			0	124.19			Rp 95,138.23	Rp 95,138.23
25-Jun-15			0	124.19			Rp 95,138.23	Rp 95,138.23
26-Jun-15			0	124.19			Rp 95,138.23	Rp 95,138.23
27-Jun-15			0	124.19			Rp 95,138.23	Rp 95,138.23
28-Jun-15			0	124.19			Rp 95,138.23	Rp 95,138.23
29-Jun-15			4.15	120.04			Rp 91,959.04	Rp 91,959.04
30-Jun-15	10.9		0	120.04	Rp 131,774.28		Rp 91,959.04	Rp 223,733.32
1-Jul-15			0	120.04			Rp 91,959.04	Rp 91,959.04
2-Jul-15		10.9	0	130.94			Rp 100,309.21	Rp 100,309.21
3-Jul-15			0	130.94			Rp 100,309.21	Rp 100,309.21
4-Jul-15			0	130.94			Rp 100,309.21	Rp 100,309.21
5-Jul-15			0	130.94			Rp 100,309.21	Rp 100,309.21
6-Jul-15			0	130.94			Rp 100,309.21	Rp 100,309.21
7-Jul-15			0	130.94			Rp 100,309.21	Rp 100,309.21
8-Jul-15			0	130.94			Rp 100,309.21	Rp 100,309.21
9-Jul-15			0	130.94			Rp 100,309.21	Rp 100,309.21

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
10-Jul-15			0	130.94			Rp 100,309.21	Rp 100,309.21
11-Jul-15			0	130.94			Rp 100,309.21	Rp 100,309.21
12-Jul-15			0	130.94			Rp 100,309.21	Rp 100,309.21
13-Jul-15			0	130.94			Rp 100,309.21	Rp 100,309.21
14-Jul-15			0	130.94			Rp 100,309.21	Rp 100,309.21
15-Jul-15	10.9		0	130.94	Rp 131,774.28		Rp 100,309.21	Rp 232,083.49
16-Jul-15			0	130.94			Rp 100,309.21	Rp 100,309.21
17-Jul-15			0	130.94			Rp 100,309.21	Rp 100,309.21
18-Jul-15		10.9	3.3	138.54			Rp 106,131.34	Rp 106,131.34
19-Jul-15			0	138.54			Rp 106,131.34	Rp 106,131.34
20-Jul-15			0	138.54			Rp 106,131.34	Rp 106,131.34
21-Jul-15			0	138.54			Rp 106,131.34	Rp 106,131.34
22-Jul-15			0.46	138.08			Rp 105,778.95	Rp 105,778.95
23-Jul-15			0	138.08			Rp 105,778.95	Rp 105,778.95
24-Jul-15			3.58	134.5			Rp 103,036.42	Rp 103,036.42
25-Jul-15			0	134.5			Rp 103,036.42	Rp 103,036.42
26-Jul-15			0	134.5			Rp 103,036.42	Rp 103,036.42
27-Jul-15			0	134.5			Rp 103,036.42	Rp 103,036.42
28-Jul-15			0	134.5			Rp 103,036.42	Rp 103,036.42
29-Jul-15			0	134.5			Rp 103,036.42	Rp 103,036.42
30-Jul-15			0	134.5			Rp 103,036.42	Rp 103,036.42
31-Jul-15	10.9		0	134.5	Rp 131,774.28		Rp 103,036.42	Rp 234,810.70
1-Aug-15			0	134.5			Rp 103,036.42	Rp 103,036.42
2-Aug-15			0	134.5			Rp 103,036.42	Rp 103,036.42
3-Aug-15		10.9	0	145.4			Rp 111,386.58	Rp 111,386.58
4-Aug-15			6.63	138.77			Rp 106,307.53	Rp 106,307.53
5-Aug-15			0	138.77			Rp 106,307.53	Rp 106,307.53
6-Aug-15			0	138.77			Rp 106,307.53	Rp 106,307.53
7-Aug-15			0	138.77			Rp 106,307.53	Rp 106,307.53
8-Aug-15			0	138.77			Rp 106,307.53	Rp 106,307.53
9-Aug-15			0.64	138.13			Rp 105,817.25	Rp 105,817.25
10-Aug-15			0	138.13			Rp 105,817.25	Rp 105,817.25
11-Aug-15			0	138.13			Rp 105,817.25	Rp 105,817.25
12-Aug-15			3.96	134.17			Rp 102,783.61	Rp 102,783.61
13-Aug-15			0	134.17			Rp 102,783.61	Rp 102,783.61
14-Aug-15			0	134.17			Rp 102,783.61	Rp 102,783.61
15-Aug-15	10.9		0.54	133.63	Rp 131,774.28		Rp 102,369.93	Rp 234,144.21
16-Aug-15			0.68	132.95			Rp 101,849.01	Rp 101,849.01
17-Aug-15		10.9	0	143.85			Rp 110,199.17	Rp 110,199.17
18-Aug-15			0	143.85			Rp 110,199.17	Rp 110,199.17
19-Aug-15			0	143.85			Rp 110,199.17	Rp 110,199.17
20-Aug-15			9.41	134.44			Rp 102,990.45	Rp 102,990.45
21-Aug-15			0	134.44			Rp 102,990.45	Rp 102,990.45
22-Aug-15			0	134.44			Rp 102,990.45	Rp 102,990.45
23-Aug-15			0	134.44			Rp 102,990.45	Rp 102,990.45
24-Aug-15			0	134.44			Rp 102,990.45	Rp 102,990.45
25-Aug-15			0	134.44			Rp 102,990.45	Rp 102,990.45
26-Aug-15			0	134.44			Rp 102,990.45	Rp 102,990.45
27-Aug-15			0	134.44			Rp 102,990.45	Rp 102,990.45
28-Aug-15			0	134.44			Rp 102,990.45	Rp 102,990.45
29-Aug-15			0.21	134.23			Rp 102,829.58	Rp 102,829.58
30-Aug-15			0	134.23			Rp 102,829.58	Rp 102,829.58
31-Aug-15	10.9		0	134.23	Rp 131,774.28		Rp 102,829.58	Rp 234,603.86
1-Sep-15			0	134.23			Rp 102,829.58	Rp 102,829.58
2-Sep-15			0	134.23			Rp 102,829.58	Rp 102,829.58
3-Sep-15		10.9	0	145.13			Rp 111,179.74	Rp 111,179.74
4-Sep-15			0	145.13			Rp 111,179.74	Rp 111,179.74
5-Sep-15			0	145.13			Rp 111,179.74	Rp 111,179.74
6-Sep-15			0	145.13			Rp 111,179.74	Rp 111,179.74
7-Sep-15			0	145.13			Rp 111,179.74	Rp 111,179.74
8-Sep-15			0	145.13			Rp 111,179.74	Rp 111,179.74
9-Sep-15			0	145.13			Rp 111,179.74	Rp 111,179.74
10-Sep-15			0	145.13			Rp 111,179.74	Rp 111,179.74
11-Sep-15			0	145.13			Rp 111,179.74	Rp 111,179.74
12-Sep-15			0	145.13			Rp 111,179.74	Rp 111,179.74
13-Sep-15			0	145.13			Rp 111,179.74	Rp 111,179.74
14-Sep-15			0	145.13			Rp 111,179.74	Rp 111,179.74
15-Sep-15	10.9		0	145.13	Rp 131,774.28		Rp 111,179.74	Rp 242,954.02
16-Sep-15			0	145.13			Rp 111,179.74	Rp 111,179.74
17-Sep-15			0	145.13			Rp 111,179.74	Rp 111,179.74
18-Sep-15		10.9	0	156.03			Rp 119,529.90	Rp 119,529.90
19-Sep-15			0	156.03			Rp 119,529.90	Rp 119,529.90
20-Sep-15			0	156.03			Rp 119,529.90	Rp 119,529.90
21-Sep-15			0.37	155.66			Rp 119,246.46	Rp 119,246.46

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
22-Sep-15			0	155.66			Rp 119,246.46	Rp 119,246.46
23-Sep-15			0	155.66			Rp 119,246.46	Rp 119,246.46
24-Sep-15			7.58	148.08			Rp 113,439.65	Rp 113,439.65
25-Sep-15			0	148.08			Rp 113,439.65	Rp 113,439.65
26-Sep-15			0	148.08			Rp 113,439.65	Rp 113,439.65
27-Sep-15			0	148.08			Rp 113,439.65	Rp 113,439.65
28-Sep-15			0	148.08			Rp 113,439.65	Rp 113,439.65
29-Sep-15			0	148.08			Rp 113,439.65	Rp 113,439.65
30-Sep-15	10.9		0	148.08	Rp 131,774.28		Rp 113,439.65	Rp 245,213.93
1-Oct-15			0	148.08			Rp 113,439.65	Rp 113,439.65
2-Oct-15			1.13	146.95			Rp 112,573.99	Rp 112,573.99
3-Oct-15			0	146.95			Rp 112,573.99	Rp 112,573.99
4-Oct-15			0	146.95			Rp 112,573.99	Rp 112,573.99
5-Oct-15			0	146.95			Rp 112,573.99	Rp 112,573.99
6-Oct-15			0	146.95			Rp 112,573.99	Rp 112,573.99
7-Oct-15			0	146.95			Rp 112,573.99	Rp 112,573.99
8-Oct-15		10.9	0	157.85			Rp 120,924.15	Rp 120,924.15
9-Oct-15			0	157.85			Rp 120,924.15	Rp 120,924.15
10-Oct-15			0	157.85			Rp 120,924.15	Rp 120,924.15
11-Oct-15			0	157.85			Rp 120,924.15	Rp 120,924.15
12-Oct-15			0	157.85			Rp 120,924.15	Rp 120,924.15
13-Oct-15			0	157.85			Rp 120,924.15	Rp 120,924.15
14-Oct-15			3.27	154.58			Rp 118,419.10	Rp 118,419.10
15-Oct-15	10.9		0	154.58	Rp 131,774.28		Rp 118,419.10	Rp 250,193.38
16-Oct-15			0	154.58			Rp 118,419.10	Rp 118,419.10
17-Oct-15		10.9	0	165.48			Rp 126,769.26	Rp 126,769.26
18-Oct-15			9.93	155.55			Rp 119,162.19	Rp 119,162.19
19-Oct-15			0	155.55			Rp 119,162.19	Rp 119,162.19
20-Oct-15			0	155.55			Rp 119,162.19	Rp 119,162.19
21-Oct-15			0	155.55			Rp 119,162.19	Rp 119,162.19
22-Oct-15			0	155.55			Rp 119,162.19	Rp 119,162.19
23-Oct-15			0	155.55			Rp 119,162.19	Rp 119,162.19
24-Oct-15			0.39	155.16			Rp 118,863.42	Rp 118,863.42
25-Oct-15			0	155.16			Rp 118,863.42	Rp 118,863.42
26-Oct-15			0	155.16			Rp 118,863.42	Rp 118,863.42
27-Oct-15			0	155.16			Rp 118,863.42	Rp 118,863.42
28-Oct-15			0	155.16			Rp 118,863.42	Rp 118,863.42
29-Oct-15			0	155.16			Rp 118,863.42	Rp 118,863.42
30-Oct-15			0	155.16			Rp 118,863.42	Rp 118,863.42
31-Oct-15	10.9		0	155.16	Rp 131,774.28		Rp 118,863.42	Rp 250,637.70
1-Nov-15			0	155.16			Rp 118,863.42	Rp 118,863.42
2-Nov-15			0	155.16			Rp 118,863.42	Rp 118,863.42
3-Nov-15		10.9	0	166.06			Rp 127,213.58	Rp 127,213.58
4-Nov-15			0	166.06			Rp 127,213.58	Rp 127,213.58
5-Nov-15			0	166.06			Rp 127,213.58	Rp 127,213.58
6-Nov-15			0	166.06			Rp 127,213.58	Rp 127,213.58
7-Nov-15			0	166.06			Rp 127,213.58	Rp 127,213.58
8-Nov-15			0	166.06			Rp 127,213.58	Rp 127,213.58
9-Nov-15			0.44	165.62			Rp 126,876.51	Rp 126,876.51
10-Nov-15			0	165.62			Rp 126,876.51	Rp 126,876.51
11-Nov-15			0	165.62			Rp 126,876.51	Rp 126,876.51
12-Nov-15			0	165.62			Rp 126,876.51	Rp 126,876.51
13-Nov-15			0	165.62			Rp 126,876.51	Rp 126,876.51
14-Nov-15			0	165.62			Rp 126,876.51	Rp 126,876.51
15-Nov-15	10.9		0	165.62	Rp 131,774.28		Rp 126,876.51	Rp 258,650.79
16-Nov-15			0	165.62			Rp 126,876.51	Rp 126,876.51
17-Nov-15		10.9	0	176.52			Rp 135,226.68	Rp 135,226.68
18-Nov-15			0	176.52			Rp 135,226.68	Rp 135,226.68
19-Nov-15			0	176.52			Rp 135,226.68	Rp 135,226.68
20-Nov-15			0	176.52			Rp 135,226.68	Rp 135,226.68
21-Nov-15			0.94	175.58			Rp 134,506.57	Rp 134,506.57
22-Nov-15			0	175.58			Rp 134,506.57	Rp 134,506.57
23-Nov-15			0	175.58			Rp 134,506.57	Rp 134,506.57
24-Nov-15			0	175.58			Rp 134,506.57	Rp 134,506.57
25-Nov-15			0	175.58			Rp 134,506.57	Rp 134,506.57
26-Nov-15			0	175.58			Rp 134,506.57	Rp 134,506.57
27-Nov-15			0	175.58			Rp 134,506.57	Rp 134,506.57
28-Nov-15			0	175.58			Rp 134,506.57	Rp 134,506.57
29-Nov-15			0	175.58			Rp 134,506.57	Rp 134,506.57
30-Nov-15	10.9		0	175.58	Rp 131,774.28		Rp 134,506.57	Rp 266,280.85
1-Dec-15			0	175.58			Rp 134,506.57	Rp 134,506.57
2-Dec-15			0	175.58			Rp 134,506.57	Rp 134,506.57
3-Dec-15		10.9	0	186.48			Rp 142,856.73	Rp 142,856.73
4-Dec-15			0	186.48			Rp 142,856.73	Rp 142,856.73

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
5-Dec-15			0	186.48			Rp 142,856.73	Rp 142,856.73
6-Dec-15			0	186.48			Rp 142,856.73	Rp 142,856.73
7-Dec-15			0	186.48			Rp 142,856.73	Rp 142,856.73
8-Dec-15			5.03	181.45			Rp 139,003.40	Rp 139,003.40
9-Dec-15			0	181.45			Rp 139,003.40	Rp 139,003.40
10-Dec-15			0	181.45			Rp 139,003.40	Rp 139,003.40
11-Dec-15			0	181.45			Rp 139,003.40	Rp 139,003.40
12-Dec-15			0	181.45			Rp 139,003.40	Rp 139,003.40
13-Dec-15			0	181.45			Rp 139,003.40	Rp 139,003.40
14-Dec-15			0	181.45			Rp 139,003.40	Rp 139,003.40
15-Dec-15	10.9		0	181.45	Rp 131,774.28		Rp 139,003.40	Rp 270,777.68
16-Dec-15			0	181.45			Rp 139,003.40	Rp 139,003.40
17-Dec-15		10.9	0	192.35			Rp 147,353.56	Rp 147,353.56
18-Dec-15			1.09	191.26			Rp 146,518.55	Rp 146,518.55
19-Dec-15			0	191.26			Rp 146,518.55	Rp 146,518.55
20-Dec-15			0	191.26			Rp 146,518.55	Rp 146,518.55
21-Dec-15			0	191.26			Rp 146,518.55	Rp 146,518.55
22-Dec-15			0	191.26			Rp 146,518.55	Rp 146,518.55
23-Dec-15			0	191.26			Rp 146,518.55	Rp 146,518.55
24-Dec-15			0	191.26			Rp 146,518.55	Rp 146,518.55
25-Dec-15			0.02	191.24			Rp 146,503.23	Rp 146,503.23
26-Dec-15			0.64	190.6			Rp 146,012.94	Rp 146,012.94
27-Dec-15			0	190.6			Rp 146,012.94	Rp 146,012.94
28-Dec-15			2.58	188.02			Rp 144,036.48	Rp 144,036.48
29-Dec-15			0	188.02			Rp 144,036.48	Rp 144,036.48
30-Dec-15			0	188.02			Rp 144,036.48	Rp 144,036.48
31-Dec-15			0	188.02			Rp 144,036.48	Rp 144,036.48
								Rp 37,075,418.88

Replication 6

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
3-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
4-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
5-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
6-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
7-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
8-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
9-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
10-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
11-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
12-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
13-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
14-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
15-Jan-15	10.9		0	84.75	Rp 131,774.28		Rp 64,924.43	Rp 196,698.71
16-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
17-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
18-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
19-Jan-15		10.9	0	95.65			Rp 73,274.60	Rp 73,274.60
20-Jan-15			0	95.65			Rp 73,274.60	Rp 73,274.60
21-Jan-15			0	95.65			Rp 73,274.60	Rp 73,274.60
22-Jan-15			0	95.65			Rp 73,274.60	Rp 73,274.60
23-Jan-15			0	95.65			Rp 73,274.60	Rp 73,274.60
24-Jan-15			0	95.65			Rp 73,274.60	Rp 73,274.60
25-Jan-15			0	95.65			Rp 73,274.60	Rp 73,274.60
26-Jan-15			2.6	93.05			Rp 71,282.81	Rp 71,282.81
27-Jan-15			0	93.05			Rp 71,282.81	Rp 71,282.81
28-Jan-15			0	93.05			Rp 71,282.81	Rp 71,282.81
29-Jan-15			0	93.05			Rp 71,282.81	Rp 71,282.81
30-Jan-15			10.95	82.1			Rp 62,894.35	Rp 62,894.35
31-Jan-15	10.9		0	82.1	Rp 131,774.28		Rp 62,894.35	Rp 194,668.63
1-Feb-15		10.9	0	93			Rp 71,244.51	Rp 71,244.51
2-Feb-15			0	93			Rp 71,244.51	Rp 71,244.51
3-Feb-15			0	93			Rp 71,244.51	Rp 71,244.51
4-Feb-15			0	93			Rp 71,244.51	Rp 71,244.51
5-Feb-15			0	93			Rp 71,244.51	Rp 71,244.51
6-Feb-15			0	93			Rp 71,244.51	Rp 71,244.51
7-Feb-15			0	93			Rp 71,244.51	Rp 71,244.51

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
8-Feb-15			0	93			Rp 71,244.51	Rp 71,244.51
9-Feb-15			0.03	92.97			Rp 71,221.53	Rp 71,221.53
10-Feb-15			0	92.97			Rp 71,221.53	Rp 71,221.53
11-Feb-15			0	92.97			Rp 71,221.53	Rp 71,221.53
12-Feb-15			0	92.97			Rp 71,221.53	Rp 71,221.53
13-Feb-15			0	92.97			Rp 71,221.53	Rp 71,221.53
14-Feb-15			0	92.97			Rp 71,221.53	Rp 71,221.53
15-Feb-15	10.9		0	92.97	Rp 131,774.28		Rp 71,221.53	Rp 202,995.81
16-Feb-15			0	92.97			Rp 71,221.53	Rp 71,221.53
17-Feb-15			0	92.97			Rp 71,221.53	Rp 71,221.53
18-Feb-15		10.9	0	103.87			Rp 79,571.69	Rp 79,571.69
19-Feb-15			0	103.87			Rp 79,571.69	Rp 79,571.69
20-Feb-15			0	103.87			Rp 79,571.69	Rp 79,571.69
21-Feb-15			0	103.87			Rp 79,571.69	Rp 79,571.69
22-Feb-15			0	103.87			Rp 79,571.69	Rp 79,571.69
23-Feb-15			0	103.87			Rp 79,571.69	Rp 79,571.69
24-Feb-15			0	103.87			Rp 79,571.69	Rp 79,571.69
25-Feb-15			0	103.87			Rp 79,571.69	Rp 79,571.69
26-Feb-15			1.27	102.6			Rp 78,598.78	Rp 78,598.78
27-Feb-15			0	102.6			Rp 78,598.78	Rp 78,598.78
28-Feb-15	10.9		0	102.6	Rp 131,774.28		Rp 78,598.78	Rp 210,373.06
1-Mar-15		10.9	0	113.5			Rp 86,948.95	Rp 86,948.95
2-Mar-15			0	113.5			Rp 86,948.95	Rp 86,948.95
3-Mar-15			0	113.5			Rp 86,948.95	Rp 86,948.95
4-Mar-15			8.42	105.08			Rp 80,498.64	Rp 80,498.64
5-Mar-15			0	105.08			Rp 80,498.64	Rp 80,498.64
6-Mar-15			0	105.08			Rp 80,498.64	Rp 80,498.64
7-Mar-15			7.92	97.16			Rp 74,431.36	Rp 74,431.36
8-Mar-15			0	97.16			Rp 74,431.36	Rp 74,431.36
9-Mar-15			0	97.16			Rp 74,431.36	Rp 74,431.36
10-Mar-15			0	97.16			Rp 74,431.36	Rp 74,431.36
11-Mar-15			0.36	96.8			Rp 74,155.58	Rp 74,155.58
12-Mar-15			0	96.8			Rp 74,155.58	Rp 74,155.58
13-Mar-15			0	96.8			Rp 74,155.58	Rp 74,155.58
14-Mar-15			0	96.8			Rp 74,155.58	Rp 74,155.58
15-Mar-15	10.9		0	96.8	Rp 131,774.28		Rp 74,155.58	Rp 205,929.86
16-Mar-15			0	96.8			Rp 74,155.58	Rp 74,155.58
17-Mar-15		10.9	0	107.7			Rp 82,505.74	Rp 82,505.74
18-Mar-15			0	107.7			Rp 82,505.74	Rp 82,505.74
19-Mar-15			0	107.7			Rp 82,505.74	Rp 82,505.74
20-Mar-15			0	107.7			Rp 82,505.74	Rp 82,505.74
21-Mar-15			2.67	105.03			Rp 80,460.33	Rp 80,460.33
22-Mar-15			0	105.03			Rp 80,460.33	Rp 80,460.33
23-Mar-15			0	105.03			Rp 80,460.33	Rp 80,460.33
24-Mar-15			0	105.03			Rp 80,460.33	Rp 80,460.33
25-Mar-15			0	105.03			Rp 80,460.33	Rp 80,460.33
26-Mar-15			0	105.03			Rp 80,460.33	Rp 80,460.33
27-Mar-15			0	105.03			Rp 80,460.33	Rp 80,460.33
28-Mar-15			0	105.03			Rp 80,460.33	Rp 80,460.33
29-Mar-15			0	105.03			Rp 80,460.33	Rp 80,460.33
30-Mar-15			0	105.03			Rp 80,460.33	Rp 80,460.33
31-Mar-15	10.9		0	105.03	Rp 131,774.28		Rp 80,460.33	Rp 212,234.61
1-Apr-15			0	105.03			Rp 80,460.33	Rp 80,460.33
2-Apr-15		10.9	0	115.93			Rp 88,810.50	Rp 88,810.50
3-Apr-15			0	115.93			Rp 88,810.50	Rp 88,810.50
4-Apr-15			0	115.93			Rp 88,810.50	Rp 88,810.50
5-Apr-15			0	115.93			Rp 88,810.50	Rp 88,810.50
6-Apr-15			0	115.93			Rp 88,810.50	Rp 88,810.50
7-Apr-15			0	115.93			Rp 88,810.50	Rp 88,810.50
8-Apr-15			0	115.93			Rp 88,810.50	Rp 88,810.50
9-Apr-15			0	115.93			Rp 88,810.50	Rp 88,810.50
10-Apr-15			0	115.93			Rp 88,810.50	Rp 88,810.50
11-Apr-15			1.09	114.84			Rp 87,975.48	Rp 87,975.48
12-Apr-15			0	114.84			Rp 87,975.48	Rp 87,975.48
13-Apr-15			0.13	114.71			Rp 87,875.89	Rp 87,875.89
14-Apr-15			0	114.71			Rp 87,875.89	Rp 87,875.89
15-Apr-15	10.9		0	114.71	Rp 131,774.28		Rp 87,875.89	Rp 219,650.17
16-Apr-15			0	114.71			Rp 87,875.89	Rp 87,875.89
17-Apr-15		10.9	0	125.61			Rp 96,226.05	Rp 96,226.05
18-Apr-15			0	125.61			Rp 96,226.05	Rp 96,226.05
19-Apr-15			0	125.61			Rp 96,226.05	Rp 96,226.05
20-Apr-15			0	125.61			Rp 96,226.05	Rp 96,226.05
21-Apr-15			0	125.61			Rp 96,226.05	Rp 96,226.05
22-Apr-15			0	125.61			Rp 96,226.05	Rp 96,226.05

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
23-Apr-15			0	125.61			Rp 96,226.05	Rp 96,226.05
24-Apr-15			0	125.61			Rp 96,226.05	Rp 96,226.05
25-Apr-15			0	125.61			Rp 96,226.05	Rp 96,226.05
26-Apr-15			0	125.61			Rp 96,226.05	Rp 96,226.05
27-Apr-15			0	125.61			Rp 96,226.05	Rp 96,226.05
28-Apr-15			0	125.61			Rp 96,226.05	Rp 96,226.05
29-Apr-15			0	125.61			Rp 96,226.05	Rp 96,226.05
30-Apr-15	10.9		0	125.61	Rp 131,774.28		Rp 96,226.05	Rp 228,000.33
1-May-15			1.07	124.54			Rp 95,406.36	Rp 95,406.36
2-May-15			0	124.54			Rp 95,406.36	Rp 95,406.36
3-May-15		10.9	0	135.44			Rp 103,756.52	Rp 103,756.52
4-May-15			1.77	133.67			Rp 102,400.58	Rp 102,400.58
5-May-15			0	133.67			Rp 102,400.58	Rp 102,400.58
6-May-15			0	133.67			Rp 102,400.58	Rp 102,400.58
7-May-15			0	133.67			Rp 102,400.58	Rp 102,400.58
8-May-15			0	133.67			Rp 102,400.58	Rp 102,400.58
9-May-15			0	133.67			Rp 102,400.58	Rp 102,400.58
10-May-15			0	133.67			Rp 102,400.58	Rp 102,400.58
11-May-15			0	133.67			Rp 102,400.58	Rp 102,400.58
12-May-15			0	133.67			Rp 102,400.58	Rp 102,400.58
13-May-15			0	133.67			Rp 102,400.58	Rp 102,400.58
14-May-15			0	133.67			Rp 102,400.58	Rp 102,400.58
15-May-15	10.9		0	133.67	Rp 131,774.28		Rp 102,400.58	Rp 234,174.86
16-May-15			0	133.67			Rp 102,400.58	Rp 102,400.58
17-May-15			0	133.67			Rp 102,400.58	Rp 102,400.58
18-May-15		10.9	0	144.57			Rp 110,750.74	Rp 110,750.74
19-May-15			0	144.57			Rp 110,750.74	Rp 110,750.74
20-May-15			0	144.57			Rp 110,750.74	Rp 110,750.74
21-May-15			0	144.57			Rp 110,750.74	Rp 110,750.74
22-May-15			1.6	142.97			Rp 109,525.03	Rp 109,525.03
23-May-15			0	142.97			Rp 109,525.03	Rp 109,525.03
24-May-15			0	142.97			Rp 109,525.03	Rp 109,525.03
25-May-15			0	142.97			Rp 109,525.03	Rp 109,525.03
26-May-15			0	142.97			Rp 109,525.03	Rp 109,525.03
27-May-15			3.34	139.63			Rp 106,966.35	Rp 106,966.35
28-May-15			0	139.63			Rp 106,966.35	Rp 106,966.35
29-May-15			0.97	138.66			Rp 106,223.27	Rp 106,223.27
30-May-15			0	138.66			Rp 106,223.27	Rp 106,223.27
31-May-15	10.9		1.77	136.89	Rp 131,774.28		Rp 104,867.32	Rp 236,641.60
1-Jun-15		10.9	0	147.79			Rp 113,217.49	Rp 113,217.49
2-Jun-15			0	147.79			Rp 113,217.49	Rp 113,217.49
3-Jun-15			0	147.79			Rp 113,217.49	Rp 113,217.49
4-Jun-15			0	147.79			Rp 113,217.49	Rp 113,217.49
5-Jun-15			0	147.79			Rp 113,217.49	Rp 113,217.49
6-Jun-15			0	147.79			Rp 113,217.49	Rp 113,217.49
7-Jun-15			0	147.79			Rp 113,217.49	Rp 113,217.49
8-Jun-15			0	147.79			Rp 113,217.49	Rp 113,217.49
9-Jun-15			0	147.79			Rp 113,217.49	Rp 113,217.49
10-Jun-15			0.9	146.89			Rp 112,528.02	Rp 112,528.02
11-Jun-15			0	146.89			Rp 112,528.02	Rp 112,528.02
12-Jun-15			0	146.89			Rp 112,528.02	Rp 112,528.02
13-Jun-15			1.17	145.72			Rp 111,631.72	Rp 111,631.72
14-Jun-15			0	145.72			Rp 111,631.72	Rp 111,631.72
15-Jun-15	10.9		0	145.72	Rp 131,774.28		Rp 111,631.72	Rp 243,406.00
16-Jun-15			0	145.72			Rp 111,631.72	Rp 111,631.72
17-Jun-15		10.9	18.9	137.72			Rp 105,503.16	Rp 105,503.16
18-Jun-15			2.05	135.67			Rp 103,932.72	Rp 103,932.72
19-Jun-15			0	135.67			Rp 103,932.72	Rp 103,932.72
20-Jun-15			19.77	115.9			Rp 88,787.51	Rp 88,787.51
21-Jun-15			0	115.9			Rp 88,787.51	Rp 88,787.51
22-Jun-15			0	115.9			Rp 88,787.51	Rp 88,787.51
23-Jun-15			0	115.9			Rp 88,787.51	Rp 88,787.51
24-Jun-15			0	115.9			Rp 88,787.51	Rp 88,787.51
25-Jun-15			0	115.9			Rp 88,787.51	Rp 88,787.51
26-Jun-15			0	115.9			Rp 88,787.51	Rp 88,787.51
27-Jun-15			0	115.9			Rp 88,787.51	Rp 88,787.51
28-Jun-15			0	115.9			Rp 88,787.51	Rp 88,787.51
29-Jun-15			0	115.9			Rp 88,787.51	Rp 88,787.51
30-Jun-15	10.9		17.67	98.23	Rp 131,774.28		Rp 75,251.06	Rp 207,025.34
1-Jul-15			0	98.23			Rp 75,251.06	Rp 75,251.06
2-Jul-15		10.9	0	109.13			Rp 83,601.22	Rp 83,601.22
3-Jul-15			0	109.13			Rp 83,601.22	Rp 83,601.22
4-Jul-15			2.82	106.31			Rp 81,440.90	Rp 81,440.90
5-Jul-15			0	106.31			Rp 81,440.90	Rp 81,440.90

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
6-Jul-15			0	106.31			Rp 81,440.90	Rp 81,440.90
7-Jul-15			0	106.31			Rp 81,440.90	Rp 81,440.90
8-Jul-15			0	106.31			Rp 81,440.90	Rp 81,440.90
9-Jul-15			0	106.31			Rp 81,440.90	Rp 81,440.90
10-Jul-15			0.46	105.85			Rp 81,088.51	Rp 81,088.51
11-Jul-15			0	105.85			Rp 81,088.51	Rp 81,088.51
12-Jul-15			0	105.85			Rp 81,088.51	Rp 81,088.51
13-Jul-15			0.41	105.44			Rp 80,774.42	Rp 80,774.42
14-Jul-15			0	105.44			Rp 80,774.42	Rp 80,774.42
15-Jul-15	10.9		0	105.44	Rp 131,774.28		Rp 80,774.42	Rp 212,548.70
16-Jul-15			0	105.44			Rp 80,774.42	Rp 80,774.42
17-Jul-15			0	105.44			Rp 80,774.42	Rp 80,774.42
18-Jul-15			3.59	101.85			Rp 78,024.23	Rp 78,024.23
19-Jul-15		10.9	0	112.75			Rp 86,374.39	Rp 86,374.39
20-Jul-15			0	112.75			Rp 86,374.39	Rp 86,374.39
21-Jul-15			0	112.75			Rp 86,374.39	Rp 86,374.39
22-Jul-15			0.03	112.72			Rp 86,351.41	Rp 86,351.41
23-Jul-15			0	112.72			Rp 86,351.41	Rp 86,351.41
24-Jul-15			3.99	108.73			Rp 83,294.79	Rp 83,294.79
25-Jul-15			0	108.73			Rp 83,294.79	Rp 83,294.79
26-Jul-15			0	108.73			Rp 83,294.79	Rp 83,294.79
27-Jul-15			0	108.73			Rp 83,294.79	Rp 83,294.79
28-Jul-15			0	108.73			Rp 83,294.79	Rp 83,294.79
29-Jul-15			0	108.73			Rp 83,294.79	Rp 83,294.79
30-Jul-15			0	108.73			Rp 83,294.79	Rp 83,294.79
31-Jul-15	10.9		0	108.73	Rp 131,774.28		Rp 83,294.79	Rp 215,069.07
1-Aug-15			0	108.73			Rp 83,294.79	Rp 83,294.79
2-Aug-15		10.9	0	119.63			Rp 91,644.95	Rp 91,644.95
3-Aug-15			0	119.63			Rp 91,644.95	Rp 91,644.95
4-Aug-15			0	119.63			Rp 91,644.95	Rp 91,644.95
5-Aug-15			0	119.63			Rp 91,644.95	Rp 91,644.95
6-Aug-15			0	119.63			Rp 91,644.95	Rp 91,644.95
7-Aug-15			0	119.63			Rp 91,644.95	Rp 91,644.95
8-Aug-15			0	119.63			Rp 91,644.95	Rp 91,644.95
9-Aug-15			0	119.63			Rp 91,644.95	Rp 91,644.95
10-Aug-15			0	119.63			Rp 91,644.95	Rp 91,644.95
11-Aug-15			0	119.63			Rp 91,644.95	Rp 91,644.95
12-Aug-15			0	119.63			Rp 91,644.95	Rp 91,644.95
13-Aug-15			0	119.63			Rp 91,644.95	Rp 91,644.95
14-Aug-15			0	119.63			Rp 91,644.95	Rp 91,644.95
15-Aug-15	10.9		0	119.63	Rp 131,774.28		Rp 91,644.95	Rp 223,419.23
16-Aug-15			0	119.63			Rp 91,644.95	Rp 91,644.95
17-Aug-15		10.9	0	130.53			Rp 99,995.12	Rp 99,995.12
18-Aug-15			6.58	123.95			Rp 94,954.38	Rp 94,954.38
19-Aug-15			0	123.95			Rp 94,954.38	Rp 94,954.38
20-Aug-15			0	123.95			Rp 94,954.38	Rp 94,954.38
21-Aug-15			0	123.95			Rp 94,954.38	Rp 94,954.38
22-Aug-15			0	123.95			Rp 94,954.38	Rp 94,954.38
23-Aug-15			0	123.95			Rp 94,954.38	Rp 94,954.38
24-Aug-15			0	123.95			Rp 94,954.38	Rp 94,954.38
25-Aug-15			0	123.95			Rp 94,954.38	Rp 94,954.38
26-Aug-15			1.3	122.65			Rp 93,958.49	Rp 93,958.49
27-Aug-15			0	122.65			Rp 93,958.49	Rp 93,958.49
28-Aug-15			0	122.65			Rp 93,958.49	Rp 93,958.49
29-Aug-15			0	122.65			Rp 93,958.49	Rp 93,958.49
30-Aug-15			0	122.65			Rp 93,958.49	Rp 93,958.49
31-Aug-15	10.9		0	122.65	Rp 131,774.28		Rp 93,958.49	Rp 225,732.77
1-Sep-15		10.9	0	133.55			Rp 102,308.65	Rp 102,308.65
2-Sep-15			0	133.55			Rp 102,308.65	Rp 102,308.65
3-Sep-15			0	133.55			Rp 102,308.65	Rp 102,308.65
4-Sep-15			0	133.55			Rp 102,308.65	Rp 102,308.65
5-Sep-15			0	133.55			Rp 102,308.65	Rp 102,308.65
6-Sep-15			0	133.55			Rp 102,308.65	Rp 102,308.65
7-Sep-15			0	133.55			Rp 102,308.65	Rp 102,308.65
8-Sep-15			0	133.55			Rp 102,308.65	Rp 102,308.65
9-Sep-15			0	133.55			Rp 102,308.65	Rp 102,308.65
10-Sep-15			0	133.55			Rp 102,308.65	Rp 102,308.65
11-Sep-15			1.94	131.61			Rp 100,822.47	Rp 100,822.47
12-Sep-15			0	131.61			Rp 100,822.47	Rp 100,822.47
13-Sep-15			0	131.61			Rp 100,822.47	Rp 100,822.47
14-Sep-15			0	131.61			Rp 100,822.47	Rp 100,822.47
15-Sep-15	10.9		0	131.61	Rp 131,774.28		Rp 100,822.47	Rp 232,596.75
16-Sep-15		10.9	0	142.51			Rp 109,172.64	Rp 109,172.64
17-Sep-15			3.83	138.68			Rp 106,238.59	Rp 106,238.59

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
18-Sep-15			0	138.68			Rp 106,238.59	Rp 106,238.59
19-Sep-15			0	138.68			Rp 106,238.59	Rp 106,238.59
20-Sep-15			0	138.68			Rp 106,238.59	Rp 106,238.59
21-Sep-15			2.2	136.48			Rp 104,553.23	Rp 104,553.23
22-Sep-15			0	136.48			Rp 104,553.23	Rp 104,553.23
23-Sep-15			0	136.48			Rp 104,553.23	Rp 104,553.23
24-Sep-15			0	136.48			Rp 104,553.23	Rp 104,553.23
25-Sep-15			1.53	134.95			Rp 103,381.15	Rp 103,381.15
26-Sep-15			0	134.95			Rp 103,381.15	Rp 103,381.15
27-Sep-15			0	134.95			Rp 103,381.15	Rp 103,381.15
28-Sep-15			0	134.95			Rp 103,381.15	Rp 103,381.15
29-Sep-15			0	134.95			Rp 103,381.15	Rp 103,381.15
30-Sep-15	10.9		1.55	133.4	Rp 131,774.28		Rp 102,193.74	Rp 233,968.02
1-Oct-15			0	133.4			Rp 102,193.74	Rp 102,193.74
2-Oct-15			0	133.4			Rp 102,193.74	Rp 102,193.74
3-Oct-15			0	133.4			Rp 102,193.74	Rp 102,193.74
4-Oct-15			0	133.4			Rp 102,193.74	Rp 102,193.74
5-Oct-15			0	133.4			Rp 102,193.74	Rp 102,193.74
6-Oct-15		10.9	0	144.3			Rp 110,543.90	Rp 110,543.90
7-Oct-15			0	144.3			Rp 110,543.90	Rp 110,543.90
8-Oct-15			0	144.3			Rp 110,543.90	Rp 110,543.90
9-Oct-15			3.62	140.68			Rp 107,770.73	Rp 107,770.73
10-Oct-15			0	140.68			Rp 107,770.73	Rp 107,770.73
11-Oct-15			0	140.68			Rp 107,770.73	Rp 107,770.73
12-Oct-15			0	140.68			Rp 107,770.73	Rp 107,770.73
13-Oct-15			1.95	138.73			Rp 106,276.89	Rp 106,276.89
14-Oct-15			0	138.73			Rp 106,276.89	Rp 106,276.89
15-Oct-15	10.9		0	138.73	Rp 131,774.28		Rp 106,276.89	Rp 238,051.17
16-Oct-15			0	138.73			Rp 106,276.89	Rp 106,276.89
17-Oct-15			0	138.73			Rp 106,276.89	Rp 106,276.89
18-Oct-15		10.9	0	149.63			Rp 114,627.05	Rp 114,627.05
19-Oct-15			3.59	146.04			Rp 111,876.86	Rp 111,876.86
20-Oct-15			0	146.04			Rp 111,876.86	Rp 111,876.86
21-Oct-15			2.92	143.12			Rp 109,639.94	Rp 109,639.94
22-Oct-15			0	143.12			Rp 109,639.94	Rp 109,639.94
23-Oct-15			0	143.12			Rp 109,639.94	Rp 109,639.94
24-Oct-15			0	143.12			Rp 109,639.94	Rp 109,639.94
25-Oct-15			0	143.12			Rp 109,639.94	Rp 109,639.94
26-Oct-15			0	143.12			Rp 109,639.94	Rp 109,639.94
27-Oct-15			0	143.12			Rp 109,639.94	Rp 109,639.94
28-Oct-15			0	143.12			Rp 109,639.94	Rp 109,639.94
29-Oct-15			0	143.12			Rp 109,639.94	Rp 109,639.94
30-Oct-15			0	143.12			Rp 109,639.94	Rp 109,639.94
31-Oct-15	10.9		0	143.12	Rp 131,774.28		Rp 109,639.94	Rp 241,414.22
1-Nov-15			0	143.12			Rp 109,639.94	Rp 109,639.94
2-Nov-15			0	143.12			Rp 109,639.94	Rp 109,639.94
3-Nov-15		10.9	0	154.02			Rp 117,990.10	Rp 117,990.10
4-Nov-15			0	154.02			Rp 117,990.10	Rp 117,990.10
5-Nov-15			0	154.02			Rp 117,990.10	Rp 117,990.10
6-Nov-15			0	154.02			Rp 117,990.10	Rp 117,990.10
7-Nov-15			0	154.02			Rp 117,990.10	Rp 117,990.10
8-Nov-15			0.38	153.64			Rp 117,698.99	Rp 117,698.99
9-Nov-15			0	153.64			Rp 117,698.99	Rp 117,698.99
10-Nov-15			0	153.64			Rp 117,698.99	Rp 117,698.99
11-Nov-15			0	153.64			Rp 117,698.99	Rp 117,698.99
12-Nov-15			0	153.64			Rp 117,698.99	Rp 117,698.99
13-Nov-15			0	153.64			Rp 117,698.99	Rp 117,698.99
14-Nov-15			8.56	145.08			Rp 111,141.44	Rp 111,141.44
15-Nov-15	10.9		0	145.08	Rp 131,774.28		Rp 111,141.44	Rp 242,915.72
16-Nov-15			0	145.08			Rp 111,141.44	Rp 111,141.44
17-Nov-15			0	145.08			Rp 111,141.44	Rp 111,141.44
18-Nov-15		10.9	0	155.98			Rp 119,491.60	Rp 119,491.60
19-Nov-15			0	155.98			Rp 119,491.60	Rp 119,491.60
20-Nov-15			0	155.98			Rp 119,491.60	Rp 119,491.60
21-Nov-15			0	155.98			Rp 119,491.60	Rp 119,491.60
22-Nov-15			0	155.98			Rp 119,491.60	Rp 119,491.60
23-Nov-15			1.11	154.87			Rp 118,641.26	Rp 118,641.26
24-Nov-15			0	154.87			Rp 118,641.26	Rp 118,641.26
25-Nov-15			0	154.87			Rp 118,641.26	Rp 118,641.26
26-Nov-15			0	154.87			Rp 118,641.26	Rp 118,641.26
27-Nov-15			0	154.87			Rp 118,641.26	Rp 118,641.26
28-Nov-15			0	154.87			Rp 118,641.26	Rp 118,641.26
29-Nov-15			0	154.87			Rp 118,641.26	Rp 118,641.26
30-Nov-15	10.9		0.8	154.07	Rp 131,774.28		Rp 118,028.40	Rp 249,802.68

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
1-Dec-15		10.9	4.35	160.62			Rp 123,046.16	Rp 123,046.16
2-Dec-15			0	160.62			Rp 123,046.16	Rp 123,046.16
3-Dec-15			0	160.62			Rp 123,046.16	Rp 123,046.16
4-Dec-15			0	160.62			Rp 123,046.16	Rp 123,046.16
5-Dec-15			0	160.62			Rp 123,046.16	Rp 123,046.16
6-Dec-15			4.64	155.98			Rp 119,491.60	Rp 119,491.60
7-Dec-15			0	155.98			Rp 119,491.60	Rp 119,491.60
8-Dec-15			0	155.98			Rp 119,491.60	Rp 119,491.60
9-Dec-15			0	155.98			Rp 119,491.60	Rp 119,491.60
10-Dec-15			0	155.98			Rp 119,491.60	Rp 119,491.60
11-Dec-15			0	155.98			Rp 119,491.60	Rp 119,491.60
12-Dec-15			9.66	146.32			Rp 112,091.36	Rp 112,091.36
13-Dec-15			0	146.32			Rp 112,091.36	Rp 112,091.36
14-Dec-15			0	146.32			Rp 112,091.36	Rp 112,091.36
15-Dec-15	10.9		0	146.32	Rp 131,774.28		Rp 112,091.36	Rp 243,865.64
16-Dec-15			0	146.32			Rp 112,091.36	Rp 112,091.36
17-Dec-15		10.9	0	157.22			Rp 120,441.53	Rp 120,441.53
18-Dec-15			0	157.22			Rp 120,441.53	Rp 120,441.53
19-Dec-15			0	157.22			Rp 120,441.53	Rp 120,441.53
20-Dec-15			1.9	155.32			Rp 118,985.99	Rp 118,985.99
21-Dec-15			0	155.32			Rp 118,985.99	Rp 118,985.99
22-Dec-15			0	155.32			Rp 118,985.99	Rp 118,985.99
23-Dec-15			0	155.32			Rp 118,985.99	Rp 118,985.99
24-Dec-15			0	155.32			Rp 118,985.99	Rp 118,985.99
25-Dec-15			0	155.32			Rp 118,985.99	Rp 118,985.99
26-Dec-15			0	155.32			Rp 118,985.99	Rp 118,985.99
27-Dec-15			0	155.32			Rp 118,985.99	Rp 118,985.99
28-Dec-15			9.97	145.35			Rp 111,348.27	Rp 111,348.27
29-Dec-15			0	145.35			Rp 111,348.27	Rp 111,348.27
30-Dec-15			0	145.35			Rp 111,348.27	Rp 111,348.27
31-Dec-15			0	145.35			Rp 111,348.27	Rp 111,348.27
							Rp	37,856,741.34

Replication 7

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
3-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
4-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
5-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
6-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
7-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
8-Jan-15			0.03	84.72			Rp 64,901.45	Rp 64,901.45
9-Jan-15			0	84.72			Rp 64,901.45	Rp 64,901.45
10-Jan-15			0	84.72			Rp 64,901.45	Rp 64,901.45
11-Jan-15			0	84.72			Rp 64,901.45	Rp 64,901.45
12-Jan-15			0	84.72			Rp 64,901.45	Rp 64,901.45
13-Jan-15			0	84.72			Rp 64,901.45	Rp 64,901.45
14-Jan-15			1.71	83.01			Rp 63,591.47	Rp 63,591.47
15-Jan-15	10.9		0	83.01	Rp 131,774.28		Rp 63,591.47	Rp 195,365.75
16-Jan-15			0	83.01			Rp 63,591.47	Rp 63,591.47
17-Jan-15			0	83.01			Rp 63,591.47	Rp 63,591.47
18-Jan-15			0.12	82.89			Rp 63,499.54	Rp 63,499.54
19-Jan-15			0	82.89			Rp 63,499.54	Rp 63,499.54
20-Jan-15			0	82.89			Rp 63,499.54	Rp 63,499.54
21-Jan-15		10.9	0	93.79			Rp 71,849.71	Rp 71,849.71
22-Jan-15			0	93.79			Rp 71,849.71	Rp 71,849.71
23-Jan-15			0.6	93.19			Rp 71,390.06	Rp 71,390.06
24-Jan-15			0	93.19			Rp 71,390.06	Rp 71,390.06
25-Jan-15			0	93.19			Rp 71,390.06	Rp 71,390.06
26-Jan-15			0	93.19			Rp 71,390.06	Rp 71,390.06
27-Jan-15			0	93.19			Rp 71,390.06	Rp 71,390.06
28-Jan-15			0	93.19			Rp 71,390.06	Rp 71,390.06
29-Jan-15			0	93.19			Rp 71,390.06	Rp 71,390.06
30-Jan-15			0	93.19			Rp 71,390.06	Rp 71,390.06
31-Jan-15	10.9		0.89	92.3	Rp 131,774.28		Rp 70,708.26	Rp 202,482.54
1-Feb-15			0	92.3			Rp 70,708.26	Rp 70,708.26
2-Feb-15		10.9	0.18	103.02			Rp 78,920.53	Rp 78,920.53
3-Feb-15			0	103.02			Rp 78,920.53	Rp 78,920.53

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
4-Feb-15			0	103.02			Rp 78,920.53	Rp 78,920.53
5-Feb-15			0	103.02			Rp 78,920.53	Rp 78,920.53
6-Feb-15			0	103.02			Rp 78,920.53	Rp 78,920.53
7-Feb-15			0	103.02			Rp 78,920.53	Rp 78,920.53
8-Feb-15			18.85	84.17			Rp 64,480.11	Rp 64,480.11
9-Feb-15			0	84.17			Rp 64,480.11	Rp 64,480.11
10-Feb-15			0	84.17			Rp 64,480.11	Rp 64,480.11
11-Feb-15			0	84.17			Rp 64,480.11	Rp 64,480.11
12-Feb-15			0	84.17			Rp 64,480.11	Rp 64,480.11
13-Feb-15			0	84.17			Rp 64,480.11	Rp 64,480.11
14-Feb-15			0	84.17			Rp 64,480.11	Rp 64,480.11
15-Feb-15	10.9		0	84.17	Rp 131,774.28		Rp 64,480.11	Rp 196,254.39
16-Feb-15			0	84.17			Rp 64,480.11	Rp 64,480.11
17-Feb-15		10.9	0	95.07			Rp 72,830.27	Rp 72,830.27
18-Feb-15			0	95.07			Rp 72,830.27	Rp 72,830.27
19-Feb-15			0	95.07			Rp 72,830.27	Rp 72,830.27
20-Feb-15			0	95.07			Rp 72,830.27	Rp 72,830.27
21-Feb-15			0	95.07			Rp 72,830.27	Rp 72,830.27
22-Feb-15			0	95.07			Rp 72,830.27	Rp 72,830.27
23-Feb-15			0	95.07			Rp 72,830.27	Rp 72,830.27
24-Feb-15			0.77	94.3			Rp 72,240.40	Rp 72,240.40
25-Feb-15			0	94.3			Rp 72,240.40	Rp 72,240.40
26-Feb-15			0	94.3			Rp 72,240.40	Rp 72,240.40
27-Feb-15			0	94.3			Rp 72,240.40	Rp 72,240.40
28-Feb-15	10.9		0	94.3	Rp 131,774.28		Rp 72,240.40	Rp 204,014.68
1-Mar-15		10.9	0	105.2			Rp 80,590.56	Rp 80,590.56
2-Mar-15			0	105.2			Rp 80,590.56	Rp 80,590.56
3-Mar-15			0	105.2			Rp 80,590.56	Rp 80,590.56
4-Mar-15			0	105.2			Rp 80,590.56	Rp 80,590.56
5-Mar-15			0	105.2			Rp 80,590.56	Rp 80,590.56
6-Mar-15			0	105.2			Rp 80,590.56	Rp 80,590.56
7-Mar-15			0	105.2			Rp 80,590.56	Rp 80,590.56
8-Mar-15			0	105.2			Rp 80,590.56	Rp 80,590.56
9-Mar-15			0	105.2			Rp 80,590.56	Rp 80,590.56
10-Mar-15			0	105.2			Rp 80,590.56	Rp 80,590.56
11-Mar-15			0	105.2			Rp 80,590.56	Rp 80,590.56
12-Mar-15			0	105.2			Rp 80,590.56	Rp 80,590.56
13-Mar-15			0	105.2			Rp 80,590.56	Rp 80,590.56
14-Mar-15			1.31	103.89			Rp 79,587.01	Rp 79,587.01
15-Mar-15	10.9		0	103.89	Rp 131,774.28		Rp 79,587.01	Rp 211,361.29
16-Mar-15			0	103.89			Rp 79,587.01	Rp 79,587.01
17-Mar-15		10.9	0	114.79			Rp 87,937.18	Rp 87,937.18
18-Mar-15			0	114.79			Rp 87,937.18	Rp 87,937.18
19-Mar-15			0	114.79			Rp 87,937.18	Rp 87,937.18
20-Mar-15			0	114.79			Rp 87,937.18	Rp 87,937.18
21-Mar-15			0.69	114.1			Rp 87,408.59	Rp 87,408.59
22-Mar-15			0	114.1			Rp 87,408.59	Rp 87,408.59
23-Mar-15			0	114.1			Rp 87,408.59	Rp 87,408.59
24-Mar-15			0.87	113.23			Rp 86,742.11	Rp 86,742.11
25-Mar-15			0	113.23			Rp 86,742.11	Rp 86,742.11
26-Mar-15			0.08	113.15			Rp 86,680.82	Rp 86,680.82
27-Mar-15			0	113.15			Rp 86,680.82	Rp 86,680.82
28-Mar-15			0	113.15			Rp 86,680.82	Rp 86,680.82
29-Mar-15			0	113.15			Rp 86,680.82	Rp 86,680.82
30-Mar-15			0	113.15			Rp 86,680.82	Rp 86,680.82
31-Mar-15	10.9		0	113.15	Rp 131,774.28		Rp 86,680.82	Rp 218,455.10
1-Apr-15			0	113.15			Rp 86,680.82	Rp 86,680.82
2-Apr-15		10.9	0.75	123.3			Rp 94,456.43	Rp 94,456.43
3-Apr-15			1.88	121.42			Rp 93,016.22	Rp 93,016.22
4-Apr-15			0	121.42			Rp 93,016.22	Rp 93,016.22
5-Apr-15			0	121.42			Rp 93,016.22	Rp 93,016.22
6-Apr-15			2.48	118.94			Rp 91,116.37	Rp 91,116.37
7-Apr-15			0	118.94			Rp 91,116.37	Rp 91,116.37
8-Apr-15			0	118.94			Rp 91,116.37	Rp 91,116.37
9-Apr-15			0	118.94			Rp 91,116.37	Rp 91,116.37
10-Apr-15			0	118.94			Rp 91,116.37	Rp 91,116.37
11-Apr-15			19.99	98.95			Rp 75,802.63	Rp 75,802.63
12-Apr-15			0	98.95			Rp 75,802.63	Rp 75,802.63
13-Apr-15			0	98.95			Rp 75,802.63	Rp 75,802.63
14-Apr-15			0	98.95			Rp 75,802.63	Rp 75,802.63
15-Apr-15	10.9		0	98.95	Rp 131,774.28		Rp 75,802.63	Rp 207,576.91
16-Apr-15			0	98.95			Rp 75,802.63	Rp 75,802.63
17-Apr-15			0	98.95			Rp 75,802.63	Rp 75,802.63
18-Apr-15			0	98.95			Rp 75,802.63	Rp 75,802.63

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
19-Apr-15			0	98.95			Rp 75,802.63	Rp 75,802.63
20-Apr-15			0	98.95			Rp 75,802.63	Rp 75,802.63
21-Apr-15		10.9	0	109.85			Rp 84,152.79	Rp 84,152.79
22-Apr-15			0	109.85			Rp 84,152.79	Rp 84,152.79
23-Apr-15			0	109.85			Rp 84,152.79	Rp 84,152.79
24-Apr-15			0	109.85			Rp 84,152.79	Rp 84,152.79
25-Apr-15			0	109.85			Rp 84,152.79	Rp 84,152.79
26-Apr-15			0	109.85			Rp 84,152.79	Rp 84,152.79
27-Apr-15			0	109.85			Rp 84,152.79	Rp 84,152.79
28-Apr-15			0	109.85			Rp 84,152.79	Rp 84,152.79
29-Apr-15			0	109.85			Rp 84,152.79	Rp 84,152.79
30-Apr-15	10.9		0	109.85	Rp 131,774.28		Rp 84,152.79	Rp 215,927.07
1-May-15			0	109.85			Rp 84,152.79	Rp 84,152.79
2-May-15			0	109.85			Rp 84,152.79	Rp 84,152.79
3-May-15		10.9	0	120.75			Rp 92,502.95	Rp 92,502.95
4-May-15			0	120.75			Rp 92,502.95	Rp 92,502.95
5-May-15			0	120.75			Rp 92,502.95	Rp 92,502.95
6-May-15			0	120.75			Rp 92,502.95	Rp 92,502.95
7-May-15			0.83	119.92			Rp 91,867.11	Rp 91,867.11
8-May-15			0	119.92			Rp 91,867.11	Rp 91,867.11
9-May-15			0	119.92			Rp 91,867.11	Rp 91,867.11
10-May-15			0	119.92			Rp 91,867.11	Rp 91,867.11
11-May-15			0	119.92			Rp 91,867.11	Rp 91,867.11
12-May-15			0	119.92			Rp 91,867.11	Rp 91,867.11
13-May-15			0	119.92			Rp 91,867.11	Rp 91,867.11
14-May-15			0	119.92			Rp 91,867.11	Rp 91,867.11
15-May-15	10.9		0	119.92	Rp 131,774.28		Rp 91,867.11	Rp 223,641.39
16-May-15			0	119.92			Rp 91,867.11	Rp 91,867.11
17-May-15			0	119.92			Rp 91,867.11	Rp 91,867.11
18-May-15		10.9	1.23	129.59			Rp 99,275.01	Rp 99,275.01
19-May-15			0	129.59			Rp 99,275.01	Rp 99,275.01
20-May-15			0	129.59			Rp 99,275.01	Rp 99,275.01
21-May-15			0	129.59			Rp 99,275.01	Rp 99,275.01
22-May-15			0	129.59			Rp 99,275.01	Rp 99,275.01
23-May-15			0	129.59			Rp 99,275.01	Rp 99,275.01
24-May-15			0	129.59			Rp 99,275.01	Rp 99,275.01
25-May-15			0	129.59			Rp 99,275.01	Rp 99,275.01
26-May-15			1.05	128.54			Rp 98,470.64	Rp 98,470.64
27-May-15			0	128.54			Rp 98,470.64	Rp 98,470.64
28-May-15			0	128.54			Rp 98,470.64	Rp 98,470.64
29-May-15			0.45	128.09			Rp 98,125.91	Rp 98,125.91
30-May-15			0	128.09			Rp 98,125.91	Rp 98,125.91
31-May-15	10.9		0	128.09	Rp 131,774.28		Rp 98,125.91	Rp 229,900.19
1-Jun-15			0	128.09			Rp 98,125.91	Rp 98,125.91
2-Jun-15			0	128.09			Rp 98,125.91	Rp 98,125.91
3-Jun-15		10.9	3.44	135.55			Rp 103,840.79	Rp 103,840.79
4-Jun-15			0	135.55			Rp 103,840.79	Rp 103,840.79
5-Jun-15			3.11	132.44			Rp 101,458.31	Rp 101,458.31
6-Jun-15			0	132.44			Rp 101,458.31	Rp 101,458.31
7-Jun-15			0	132.44			Rp 101,458.31	Rp 101,458.31
8-Jun-15			0.84	131.6			Rp 100,814.81	Rp 100,814.81
9-Jun-15			0	131.6			Rp 100,814.81	Rp 100,814.81
10-Jun-15			0	131.6			Rp 100,814.81	Rp 100,814.81
11-Jun-15			0	131.6			Rp 100,814.81	Rp 100,814.81
12-Jun-15			0	131.6			Rp 100,814.81	Rp 100,814.81
13-Jun-15			3.77	127.83			Rp 97,926.73	Rp 97,926.73
14-Jun-15			9.44	118.39			Rp 90,695.03	Rp 90,695.03
15-Jun-15	10.9		0	118.39	Rp 131,774.28		Rp 90,695.03	Rp 222,469.31
16-Jun-15			0	118.39			Rp 90,695.03	Rp 90,695.03
17-Jun-15			0	118.39			Rp 90,695.03	Rp 90,695.03
18-Jun-15		10.9	0	129.29			Rp 99,045.19	Rp 99,045.19
19-Jun-15			0	129.29			Rp 99,045.19	Rp 99,045.19
20-Jun-15			0	129.29			Rp 99,045.19	Rp 99,045.19
21-Jun-15			0	129.29			Rp 99,045.19	Rp 99,045.19
22-Jun-15			0	129.29			Rp 99,045.19	Rp 99,045.19
23-Jun-15			0	129.29			Rp 99,045.19	Rp 99,045.19
24-Jun-15			0	129.29			Rp 99,045.19	Rp 99,045.19
25-Jun-15			0	129.29			Rp 99,045.19	Rp 99,045.19
26-Jun-15			0	129.29			Rp 99,045.19	Rp 99,045.19
27-Jun-15			0	129.29			Rp 99,045.19	Rp 99,045.19
28-Jun-15			0	129.29			Rp 99,045.19	Rp 99,045.19
29-Jun-15			0	129.29			Rp 99,045.19	Rp 99,045.19
30-Jun-15	10.9		0	129.29	Rp 131,774.28		Rp 99,045.19	Rp 230,819.47
1-Jul-15			0	129.29			Rp 99,045.19	Rp 99,045.19

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
2-Jul-15			0	129.29			Rp 99,045.19	Rp 99,045.19
3-Jul-15		10.9	0	140.19			Rp 107,395.35	Rp 107,395.35
4-Jul-15			0	140.19			Rp 107,395.35	Rp 107,395.35
5-Jul-15			0	140.19			Rp 107,395.35	Rp 107,395.35
6-Jul-15			0	140.19			Rp 107,395.35	Rp 107,395.35
7-Jul-15			0	140.19			Rp 107,395.35	Rp 107,395.35
8-Jul-15			0.67	139.52			Rp 106,882.09	Rp 106,882.09
9-Jul-15			0	139.52			Rp 106,882.09	Rp 106,882.09
10-Jul-15			1.52	138			Rp 105,717.66	Rp 105,717.66
11-Jul-15			0	138			Rp 105,717.66	Rp 105,717.66
12-Jul-15			0	138			Rp 105,717.66	Rp 105,717.66
13-Jul-15			0	138			Rp 105,717.66	Rp 105,717.66
14-Jul-15			0	138			Rp 105,717.66	Rp 105,717.66
15-Jul-15	10.9		0	138	Rp 131,774.28		Rp 105,717.66	Rp 237,491.94
16-Jul-15			0	138			Rp 105,717.66	Rp 105,717.66
17-Jul-15			0	138			Rp 105,717.66	Rp 105,717.66
18-Jul-15		10.9	0	148.9			Rp 114,067.82	Rp 114,067.82
19-Jul-15			9.74	139.16			Rp 106,606.30	Rp 106,606.30
20-Jul-15			0.75	138.41			Rp 106,031.75	Rp 106,031.75
21-Jul-15			0	138.41			Rp 106,031.75	Rp 106,031.75
22-Jul-15			0	138.41			Rp 106,031.75	Rp 106,031.75
23-Jul-15			0	138.41			Rp 106,031.75	Rp 106,031.75
24-Jul-15			0	138.41			Rp 106,031.75	Rp 106,031.75
25-Jul-15			0	138.41			Rp 106,031.75	Rp 106,031.75
26-Jul-15			0	138.41			Rp 106,031.75	Rp 106,031.75
27-Jul-15			2.17	136.24			Rp 104,369.38	Rp 104,369.38
28-Jul-15			0	136.24			Rp 104,369.38	Rp 104,369.38
29-Jul-15			0	136.24			Rp 104,369.38	Rp 104,369.38
30-Jul-15			0	136.24			Rp 104,369.38	Rp 104,369.38
31-Jul-15	10.9		0	136.24	Rp 131,774.28		Rp 104,369.38	Rp 236,143.66
1-Aug-15			0	136.24			Rp 104,369.38	Rp 104,369.38
2-Aug-15		10.9	0	147.14			Rp 112,719.54	Rp 112,719.54
3-Aug-15			0	147.14			Rp 112,719.54	Rp 112,719.54
4-Aug-15			0	147.14			Rp 112,719.54	Rp 112,719.54
5-Aug-15			0	147.14			Rp 112,719.54	Rp 112,719.54
6-Aug-15			0	147.14			Rp 112,719.54	Rp 112,719.54
7-Aug-15			0	147.14			Rp 112,719.54	Rp 112,719.54
8-Aug-15			0	147.14			Rp 112,719.54	Rp 112,719.54
9-Aug-15			0	147.14			Rp 112,719.54	Rp 112,719.54
10-Aug-15			0	147.14			Rp 112,719.54	Rp 112,719.54
11-Aug-15			0	147.14			Rp 112,719.54	Rp 112,719.54
12-Aug-15			0	147.14			Rp 112,719.54	Rp 112,719.54
13-Aug-15			0	147.14			Rp 112,719.54	Rp 112,719.54
14-Aug-15			0	147.14			Rp 112,719.54	Rp 112,719.54
15-Aug-15	10.9		0	147.14	Rp 131,774.28		Rp 112,719.54	Rp 244,493.82
16-Aug-15			0	147.14			Rp 112,719.54	Rp 112,719.54
17-Aug-15		10.9	0	158.04			Rp 121,069.70	Rp 121,069.70
18-Aug-15			0	158.04			Rp 121,069.70	Rp 121,069.70
19-Aug-15			1.84	156.2			Rp 119,660.13	Rp 119,660.13
20-Aug-15			0	156.2			Rp 119,660.13	Rp 119,660.13
21-Aug-15			0	156.2			Rp 119,660.13	Rp 119,660.13
22-Aug-15			0	156.2			Rp 119,660.13	Rp 119,660.13
23-Aug-15			0	156.2			Rp 119,660.13	Rp 119,660.13
24-Aug-15			9.8	146.4			Rp 112,152.65	Rp 112,152.65
25-Aug-15			0	146.4			Rp 112,152.65	Rp 112,152.65
26-Aug-15			0	146.4			Rp 112,152.65	Rp 112,152.65
27-Aug-15			0	146.4			Rp 112,152.65	Rp 112,152.65
28-Aug-15			0	146.4			Rp 112,152.65	Rp 112,152.65
29-Aug-15			0	146.4			Rp 112,152.65	Rp 112,152.65
30-Aug-15			0	146.4			Rp 112,152.65	Rp 112,152.65
31-Aug-15	10.9		0	146.4	Rp 131,774.28		Rp 112,152.65	Rp 243,926.93
1-Sep-15		10.9	0	157.3			Rp 120,502.81	Rp 120,502.81
2-Sep-15			0	157.3			Rp 120,502.81	Rp 120,502.81
3-Sep-15			0	157.3			Rp 120,502.81	Rp 120,502.81
4-Sep-15			0	157.3			Rp 120,502.81	Rp 120,502.81
5-Sep-15			0	157.3			Rp 120,502.81	Rp 120,502.81
6-Sep-15			1.53	155.77			Rp 119,330.72	Rp 119,330.72
7-Sep-15			0	155.77			Rp 119,330.72	Rp 119,330.72
8-Sep-15			0	155.77			Rp 119,330.72	Rp 119,330.72
9-Sep-15			0	155.77			Rp 119,330.72	Rp 119,330.72
10-Sep-15			0	155.77			Rp 119,330.72	Rp 119,330.72
11-Sep-15			0	155.77			Rp 119,330.72	Rp 119,330.72
12-Sep-15			0.01	155.76			Rp 119,323.06	Rp 119,323.06
13-Sep-15			0	155.76			Rp 119,323.06	Rp 119,323.06

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
14-Sep-15			0	155.76			Rp 119,323.06	Rp 119,323.06
15-Sep-15	10.9		0	155.76	Rp 131,774.28		Rp 119,323.06	Rp 251,097.34
16-Sep-15			0	155.76			Rp 119,323.06	Rp 119,323.06
17-Sep-15			0	155.76			Rp 119,323.06	Rp 119,323.06
18-Sep-15		10.9	0	166.66			Rp 127,673.23	Rp 127,673.23
19-Sep-15			0	166.66			Rp 127,673.23	Rp 127,673.23
20-Sep-15			0	166.66			Rp 127,673.23	Rp 127,673.23
21-Sep-15			0	166.66			Rp 127,673.23	Rp 127,673.23
22-Sep-15			0	166.66			Rp 127,673.23	Rp 127,673.23
23-Sep-15			8.74	157.92			Rp 120,977.77	Rp 120,977.77
24-Sep-15			0	157.92			Rp 120,977.77	Rp 120,977.77
25-Sep-15			0	157.92			Rp 120,977.77	Rp 120,977.77
26-Sep-15			0	157.92			Rp 120,977.77	Rp 120,977.77
27-Sep-15			0	157.92			Rp 120,977.77	Rp 120,977.77
28-Sep-15			0	157.92			Rp 120,977.77	Rp 120,977.77
29-Sep-15			0	157.92			Rp 120,977.77	Rp 120,977.77
30-Sep-15	10.9		0	157.92	Rp 131,774.28		Rp 120,977.77	Rp 252,752.05
1-Oct-15			0	157.92			Rp 120,977.77	Rp 120,977.77
2-Oct-15			0	157.92			Rp 120,977.77	Rp 120,977.77
3-Oct-15		10.9	0	168.82			Rp 129,327.94	Rp 129,327.94
4-Oct-15			0	168.82			Rp 129,327.94	Rp 129,327.94
5-Oct-15			0	168.82			Rp 129,327.94	Rp 129,327.94
6-Oct-15			0	168.82			Rp 129,327.94	Rp 129,327.94
7-Oct-15			0	168.82			Rp 129,327.94	Rp 129,327.94
8-Oct-15			2.27	166.55			Rp 127,588.96	Rp 127,588.96
9-Oct-15			0	166.55			Rp 127,588.96	Rp 127,588.96
10-Oct-15			0	166.55			Rp 127,588.96	Rp 127,588.96
11-Oct-15			0	166.55			Rp 127,588.96	Rp 127,588.96
12-Oct-15			0	166.55			Rp 127,588.96	Rp 127,588.96
13-Oct-15			0	166.55			Rp 127,588.96	Rp 127,588.96
14-Oct-15			0	166.55			Rp 127,588.96	Rp 127,588.96
15-Oct-15	10.9		0	166.55	Rp 131,774.28		Rp 127,588.96	Rp 259,363.24
16-Oct-15			0	166.55			Rp 127,588.96	Rp 127,588.96
17-Oct-15			0.7	165.85			Rp 127,052.71	Rp 127,052.71
18-Oct-15			1.3	164.55			Rp 126,056.82	Rp 126,056.82
19-Oct-15		10.9	0	175.45			Rp 134,406.98	Rp 134,406.98
20-Oct-15			0	175.45			Rp 134,406.98	Rp 134,406.98
21-Oct-15			0	175.45			Rp 134,406.98	Rp 134,406.98
22-Oct-15			9.23	166.22			Rp 127,336.16	Rp 127,336.16
23-Oct-15			0	166.22			Rp 127,336.16	Rp 127,336.16
24-Oct-15			0	166.22			Rp 127,336.16	Rp 127,336.16
25-Oct-15			0	166.22			Rp 127,336.16	Rp 127,336.16
26-Oct-15			0	166.22			Rp 127,336.16	Rp 127,336.16
27-Oct-15			0	166.22			Rp 127,336.16	Rp 127,336.16
28-Oct-15			0	166.22			Rp 127,336.16	Rp 127,336.16
29-Oct-15			3.21	163.01			Rp 124,877.07	Rp 124,877.07
30-Oct-15			0.02	162.99			Rp 124,861.75	Rp 124,861.75
31-Oct-15	10.9		0	162.99	Rp 131,774.28		Rp 124,861.75	Rp 256,636.03
1-Nov-15			0	162.99			Rp 124,861.75	Rp 124,861.75
2-Nov-15			0	162.99			Rp 124,861.75	Rp 124,861.75
3-Nov-15		10.9	0	173.89			Rp 133,211.91	Rp 133,211.91
4-Nov-15			0	173.89			Rp 133,211.91	Rp 133,211.91
5-Nov-15			0	173.89			Rp 133,211.91	Rp 133,211.91
6-Nov-15			0	173.89			Rp 133,211.91	Rp 133,211.91
7-Nov-15			0	173.89			Rp 133,211.91	Rp 133,211.91
8-Nov-15			19.51	154.38			Rp 118,265.89	Rp 118,265.89
9-Nov-15			0	154.38			Rp 118,265.89	Rp 118,265.89
10-Nov-15			0	154.38			Rp 118,265.89	Rp 118,265.89
11-Nov-15			0	154.38			Rp 118,265.89	Rp 118,265.89
12-Nov-15			0	154.38			Rp 118,265.89	Rp 118,265.89
13-Nov-15			0	154.38			Rp 118,265.89	Rp 118,265.89
14-Nov-15			0	154.38			Rp 118,265.89	Rp 118,265.89
15-Nov-15	10.9		0	154.38	Rp 131,774.28		Rp 118,265.89	Rp 250,040.17
16-Nov-15			0	154.38			Rp 118,265.89	Rp 118,265.89
17-Nov-15			0	154.38			Rp 118,265.89	Rp 118,265.89
18-Nov-15		10.9	0	165.28			Rp 126,616.05	Rp 126,616.05
19-Nov-15			0	165.28			Rp 126,616.05	Rp 126,616.05
20-Nov-15			0	165.28			Rp 126,616.05	Rp 126,616.05
21-Nov-15			0	165.28			Rp 126,616.05	Rp 126,616.05
22-Nov-15			0	165.28			Rp 126,616.05	Rp 126,616.05
23-Nov-15			0	165.28			Rp 126,616.05	Rp 126,616.05
24-Nov-15			0	165.28			Rp 126,616.05	Rp 126,616.05
25-Nov-15			0	165.28			Rp 126,616.05	Rp 126,616.05
26-Nov-15			0	165.28			Rp 126,616.05	Rp 126,616.05

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
27-Nov-15			0	165.28			Rp 126,616.05	Rp 126,616.05
28-Nov-15			0	165.28			Rp 126,616.05	Rp 126,616.05
29-Nov-15			0	165.28			Rp 126,616.05	Rp 126,616.05
30-Nov-15	10.9		0	165.28	Rp 131,774.28		Rp 126,616.05	Rp 258,390.33
1-Dec-15			0	165.28			Rp 126,616.05	Rp 126,616.05
2-Dec-15			0	165.28			Rp 126,616.05	Rp 126,616.05
3-Dec-15			0	165.28			Rp 126,616.05	Rp 126,616.05
4-Dec-15		10.9	0	176.18			Rp 134,966.21	Rp 134,966.21
5-Dec-15			0	176.18			Rp 134,966.21	Rp 134,966.21
6-Dec-15			0	176.18			Rp 134,966.21	Rp 134,966.21
7-Dec-15			0	176.18			Rp 134,966.21	Rp 134,966.21
8-Dec-15			0	176.18			Rp 134,966.21	Rp 134,966.21
9-Dec-15			0	176.18			Rp 134,966.21	Rp 134,966.21
10-Dec-15			0	176.18			Rp 134,966.21	Rp 134,966.21
11-Dec-15			0	176.18			Rp 134,966.21	Rp 134,966.21
12-Dec-15			0	176.18			Rp 134,966.21	Rp 134,966.21
13-Dec-15			0	176.18			Rp 134,966.21	Rp 134,966.21
14-Dec-15			1.98	174.2			Rp 133,449.39	Rp 133,449.39
15-Dec-15	10.9		0	174.2	Rp 131,774.28		Rp 133,449.39	Rp 265,223.67
16-Dec-15			0	174.2			Rp 133,449.39	Rp 133,449.39
17-Dec-15			0	174.2			Rp 133,449.39	Rp 133,449.39
18-Dec-15		10.9	0	185.1			Rp 141,799.56	Rp 141,799.56
19-Dec-15			0	185.1			Rp 141,799.56	Rp 141,799.56
20-Dec-15			0	185.1			Rp 141,799.56	Rp 141,799.56
21-Dec-15			0	185.1			Rp 141,799.56	Rp 141,799.56
22-Dec-15			0	185.1			Rp 141,799.56	Rp 141,799.56
23-Dec-15			0	185.1			Rp 141,799.56	Rp 141,799.56
24-Dec-15			0	185.1			Rp 141,799.56	Rp 141,799.56
25-Dec-15			0	185.1			Rp 141,799.56	Rp 141,799.56
26-Dec-15			0	185.1			Rp 141,799.56	Rp 141,799.56
27-Dec-15			0	185.1			Rp 141,799.56	Rp 141,799.56
28-Dec-15			0	185.1			Rp 141,799.56	Rp 141,799.56
29-Dec-15			0	185.1			Rp 141,799.56	Rp 141,799.56
30-Dec-15			0	185.1			Rp 141,799.56	Rp 141,799.56
31-Dec-15			0	185.1			Rp 141,799.56	Rp 141,799.56
			43		23	0		Rp 40,573,294.50

APPENDIX C

EXISTING SYSTEM LEAD TIME

(AC 260 Gr 79 x 109)

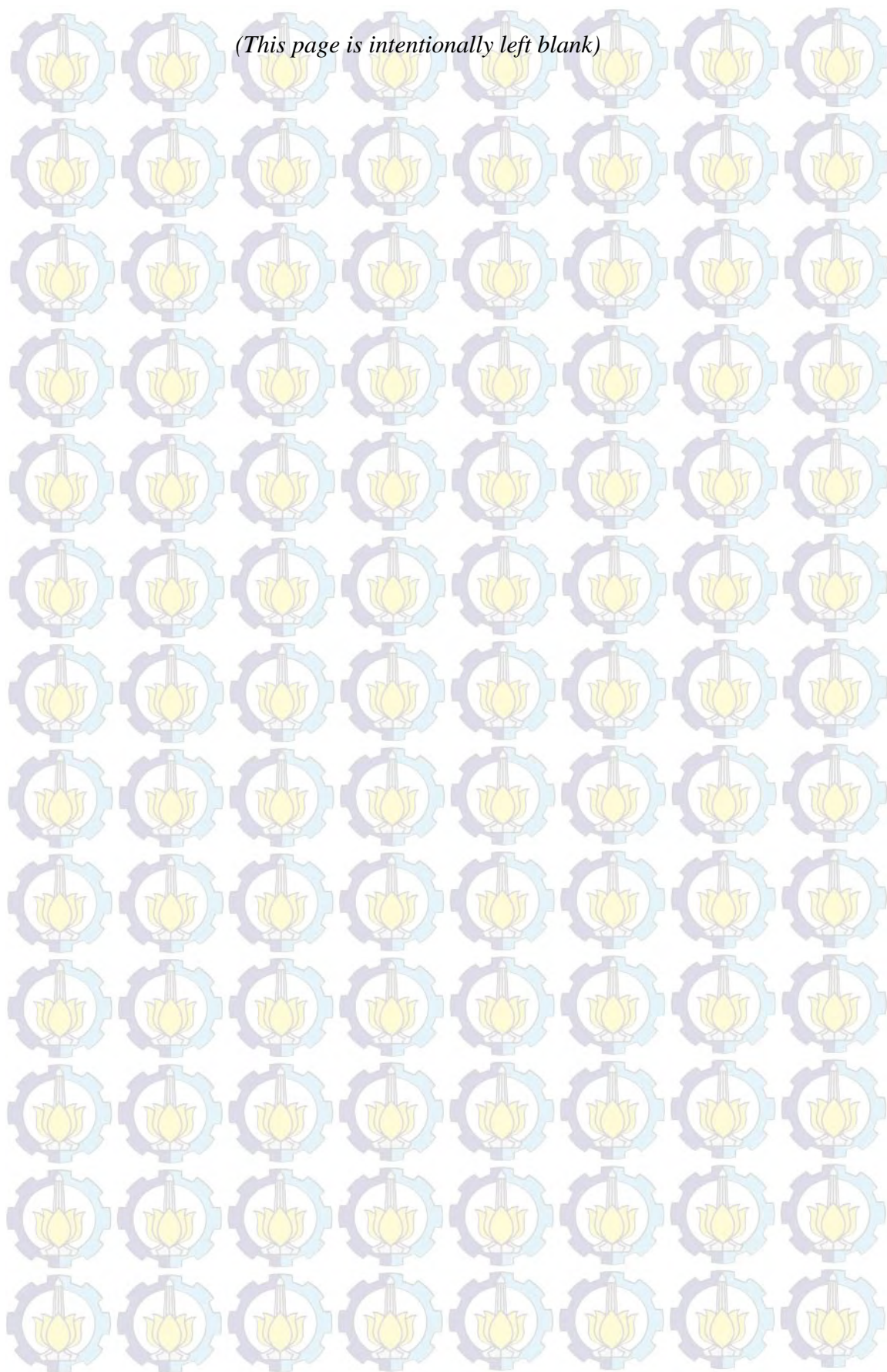
Random Value

No	Random 1	Random2	Random 3	Random 4	Random 5	Random 6	Random 7
1	0.30661579	0.51430301	0.55460328	0.1421216	0.33291235	0.8169408	0.92941317
2	0.33095263	0.45752559	0.11612059	0.51807934	0.78160492	0.44790567	0.46754753
3	0.32225521	0.02702922	0.69779051	0.572937	0.67453434	0.52163047	0.19407455
4	0.19851182	0.73194421	0.17312215	0.79566094	0.98869527	0.27783338	0.0128584
5	0.75284861	0.40200787	0.51835004	0.63808194	0.30437507	0.38992686	0.26312871
6	0.43070285	0.18347256	0.11164109	0.15078566	0.80052892	0.16943156	0.37266221
7	0.38493577	0.73330307	0.96176631	0.43061984	0.65302316	0.25949138	0.90414135
8	0.29655599	0.69800677	0.73105921	0.43136298	0.91643414	0.76422556	0.6359308
9	0.85187587	0.45122671	0.4811522	0.74228734	0.44324918	0.70662565	0.7315081
10	0.47103019	0.92388628	0.72726506	0.52231921	0.73422071	0.13102459	0.61487503
11	0.03843206	0.85728608	0.14031662	0.60416962	0.03795645	0.2568775	0.75218605
12	0.83201922	0.05860117	0.44365421	0.55208858	0.47849651	0.18369061	0.72470729
13	0.50955461	0.53658593	0.84831374	0.85811333	0.78111674	0.84008415	0.56298675
14	0.32816501	0.63538766	0.30126672	0.74927239	0.69578371	0.42919313	0.39290199
15	0.61014056	0.23677392	0.46499187	0.65123324	0.48443757	0.25549799	0.43887596
16	0.27424667	0.19355733	0.1872	0.33286626	0.7615536	0.01665031	0.10002587
17	0.69724852	0.54156529	0.73320793	0.695778	0.55109333	0.13195019	0.62256115
18	0.43203544	0.22254036	0.00572245	0.94000541	0.95868194	0.92083351	0.7065144
19	0.61420507	0.10672924	0.88802645	0.48679136	0.47928158	0.68496325	0.86465825
20	0.0654654	0.22623174	0.60182553	0.92995848	0.57741413	0.57106868	0.71336848
21	0.47461235	0.85631405	0.80811193	0.87701146	0.18992614	0.65701631	0.63371312
22	0.93854414	0.48422514	0.43489332	0.09619222	0.75683849	0.14698837	0.82406215
23	0.59487602	0.90760413	0.36405491	0.88883216	0.3847078	0.27261481	0.58642115

Generated Lead Time

No	Value 1	Value 2	Value 3	Value 4	Value 5	Value 6	Value 7
1	2	3	3	1	2	4	6
2	2	2	1	3	3	2	2
3	2	1	3	3	3	3	2
4	2	3	2	3	8	2	1
5	3	2	3	3	2	2	2
6	2	2	1	2	4	2	2
7	2	3	8	2	3	2	6
8	2	3	3	2	6	3	3
9	4	2	2	3	2	3	3
10	2	6	3	3	3	1	3
11	1	4	1	3	1	2	3
12	4	1	2	3	2	2	3
13	3	3	4	4	3	4	3
14	2	3	2	3	3	2	2
15	3	2	2	3	2	2	2
16	2	2	2	2	3	1	1
17	3	3	3	3	3	1	3
18	2	2	1	6	8	6	3
19	3	1	4	2	2	3	4
20	1	2	3	6	3	3	3
21	2	4	4	4	2	3	3
22	6	2	2	1	3	1	4
23	3	6	2	4	2	2	3

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APPENDIX D

CONTINUOUS REVIEW REPLICATION (AC 260 Gr 79 x 109)

Replication 1

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
3-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
4-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
5-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
6-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
7-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
8-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
9-Jan-15			9.84	74.91			Rp 57,386.30	Rp 57,386.30
10-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
11-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
12-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
13-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
14-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
15-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
16-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
17-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
18-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
19-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
20-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
21-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
22-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
23-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
24-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
25-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
26-Jan-15			0.89	74.02			Rp 56,704.50	Rp 56,704.50
27-Jan-15			0	74.02			Rp 56,704.50	Rp 56,704.50
28-Jan-15			0	74.02			Rp 56,704.50	Rp 56,704.50
29-Jan-15			0	74.02			Rp 56,704.50	Rp 56,704.50
30-Jan-15			0	74.02			Rp 56,704.50	Rp 56,704.50
31-Jan-15			0	74.02			Rp 56,704.50	Rp 56,704.50
1-Feb-15			0	74.02			Rp 56,704.50	Rp 56,704.50
2-Feb-15			0	74.02			Rp 56,704.50	Rp 56,704.50
3-Feb-15			0	74.02			Rp 56,704.50	Rp 56,704.50
4-Feb-15			1.85	72.17			Rp 55,287.27	Rp 55,287.27
5-Feb-15			0	72.17			Rp 55,287.27	Rp 55,287.27
6-Feb-15			0	72.17			Rp 55,287.27	Rp 55,287.27
7-Feb-15			0	72.17			Rp 55,287.27	Rp 55,287.27
8-Feb-15			0	72.17			Rp 55,287.27	Rp 55,287.27
9-Feb-15			0	72.17			Rp 55,287.27	Rp 55,287.27
10-Feb-15			0	72.17			Rp 55,287.27	Rp 55,287.27
11-Feb-15			0	72.17			Rp 55,287.27	Rp 55,287.27
12-Feb-15			0	72.17			Rp 55,287.27	Rp 55,287.27
13-Feb-15			0	72.17			Rp 55,287.27	Rp 55,287.27
14-Feb-15			0	72.17			Rp 55,287.27	Rp 55,287.27
15-Feb-15			0.29	71.88			Rp 55,065.11	Rp 55,065.11
16-Feb-15			0	71.88			Rp 55,065.11	Rp 55,065.11
17-Feb-15			0	71.88			Rp 55,065.11	Rp 55,065.11
18-Feb-15			0	71.88			Rp 55,065.11	Rp 55,065.11
19-Feb-15			0	71.88			Rp 55,065.11	Rp 55,065.11
20-Feb-15			0	71.88			Rp 55,065.11	Rp 55,065.11
21-Feb-15			0	71.88			Rp 55,065.11	Rp 55,065.11
22-Feb-15			0	71.88			Rp 55,065.11	Rp 55,065.11
23-Feb-15			0	71.88			Rp 55,065.11	Rp 55,065.11
24-Feb-15			16.29	55.59			Rp 42,585.83	Rp 42,585.83
25-Feb-15			0	55.59			Rp 42,585.83	Rp 42,585.83
26-Feb-15			0	55.59			Rp 42,585.83	Rp 42,585.83
27-Feb-15			0	55.59			Rp 42,585.83	Rp 42,585.83
28-Feb-15			0	55.59			Rp 42,585.83	Rp 42,585.83
1-Mar-15			0	55.59			Rp 42,585.83	Rp 42,585.83
2-Mar-15			0	55.59			Rp 42,585.83	Rp 42,585.83
3-Mar-15			0	55.59			Rp 42,585.83	Rp 42,585.83
4-Mar-15			0	55.59			Rp 42,585.83	Rp 42,585.83
5-Mar-15			0	55.59			Rp 42,585.83	Rp 42,585.83

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
6-Mar-15			0	55.59			Rp 42,585.83	Rp 42,585.83
7-Mar-15			0	55.59			Rp 42,585.83	Rp 42,585.83
8-Mar-15			0	55.59			Rp 42,585.83	Rp 42,585.83
9-Mar-15			7.74	47.85			Rp 36,656.45	Rp 36,656.45
10-Mar-15			0	47.85			Rp 36,656.45	Rp 36,656.45
11-Mar-15			2.32	45.53			Rp 34,879.17	Rp 34,879.17
12-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
13-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
14-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
15-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
16-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
17-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
18-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
19-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
20-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
21-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
22-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
23-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
24-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
25-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
26-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
27-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
28-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
29-Mar-15			4.82	40.71			Rp 31,186.71	Rp 31,186.71
30-Mar-15			2.06	38.65			Rp 29,608.61	Rp 29,608.61
31-Mar-15			0	38.65			Rp 29,608.61	Rp 29,608.61
1-Apr-15			0	38.65			Rp 29,608.61	Rp 29,608.61
2-Apr-15			0	38.65			Rp 29,608.61	Rp 29,608.61
3-Apr-15			0	38.65			Rp 29,608.61	Rp 29,608.61
4-Apr-15			0	38.65			Rp 29,608.61	Rp 29,608.61
5-Apr-15			0	38.65			Rp 29,608.61	Rp 29,608.61
6-Apr-15			0	38.65			Rp 29,608.61	Rp 29,608.61
7-Apr-15			0	38.65			Rp 29,608.61	Rp 29,608.61
8-Apr-15			0	38.65			Rp 29,608.61	Rp 29,608.61
9-Apr-15			0	38.65			Rp 29,608.61	Rp 29,608.61
10-Apr-15			0	38.65			Rp 29,608.61	Rp 29,608.61
11-Apr-15			0	38.65			Rp 29,608.61	Rp 29,608.61
12-Apr-15			2.91	35.74			Rp 27,379.34	Rp 27,379.34
13-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
14-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
15-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
16-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
17-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
18-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
19-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
20-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
21-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
22-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
23-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
24-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
25-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
26-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
27-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
28-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
29-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
30-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
1-May-15			0	35.74			Rp 27,379.34	Rp 27,379.34
2-May-15			0	35.74			Rp 27,379.34	Rp 27,379.34
3-May-15			0	35.74			Rp 27,379.34	Rp 27,379.34
4-May-15			0.61	35.13			Rp 26,912.04	Rp 26,912.04
5-May-15			0	35.13			Rp 26,912.04	Rp 26,912.04
6-May-15			0	35.13			Rp 26,912.04	Rp 26,912.04
7-May-15			17.57	17.56			Rp 13,452.19	Rp 13,452.19
8-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
9-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
10-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
11-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
12-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
13-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
14-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
15-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
16-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
17-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
18-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
19-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
20-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
21-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
22-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
23-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
24-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
25-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
26-May-15			3.61	13.95			Rp 10,686.68	Rp 10,686.68
27-May-15			0	13.95			Rp 10,686.68	Rp 10,686.68
28-May-15			0	13.95			Rp 10,686.68	Rp 10,686.68
29-May-15			0	13.95			Rp 10,686.68	Rp 10,686.68
30-May-15			0	13.95			Rp 10,686.68	Rp 10,686.68
31-May-15			0	13.95			Rp 10,686.68	Rp 10,686.68
1-Jun-15			0	13.95			Rp 10,686.68	Rp 10,686.68
2-Jun-15			0	13.95			Rp 10,686.68	Rp 10,686.68
3-Jun-15			0	13.95			Rp 10,686.68	Rp 10,686.68
4-Jun-15			1	12.95			Rp 9,920.61	Rp 9,920.61
5-Jun-15			0	12.95			Rp 9,920.61	Rp 9,920.61
6-Jun-15			0	12.95			Rp 9,920.61	Rp 9,920.61
7-Jun-15			0	12.95			Rp 9,920.61	Rp 9,920.61
8-Jun-15			0	12.95			Rp 9,920.61	Rp 9,920.61
9-Jun-15			0	12.95			Rp 9,920.61	Rp 9,920.61
10-Jun-15	11.63		8.07	4.88	Rp 131,774.28		Rp 3,738.42	Rp 135,512.70
11-Jun-15			0	4.88			Rp 3,738.42	Rp 3,738.42
12-Jun-15		11.63	0	16.51			Rp 12,647.82	Rp 12,647.82
13-Jun-15			0	16.51			Rp 12,647.82	Rp 12,647.82
14-Jun-15			0	16.51			Rp 12,647.82	Rp 12,647.82
15-Jun-15			0	16.51			Rp 12,647.82	Rp 12,647.82
16-Jun-15			0	16.51			Rp 12,647.82	Rp 12,647.82
17-Jun-15			0	16.51			Rp 12,647.82	Rp 12,647.82
18-Jun-15			0	16.51			Rp 12,647.82	Rp 12,647.82
19-Jun-15			0	16.51			Rp 12,647.82	Rp 12,647.82
20-Jun-15			0	16.51			Rp 12,647.82	Rp 12,647.82
21-Jun-15			0	16.51			Rp 12,647.82	Rp 12,647.82
22-Jun-15			0	16.51			Rp 12,647.82	Rp 12,647.82
23-Jun-15			0	16.51			Rp 12,647.82	Rp 12,647.82
24-Jun-15			0	16.51			Rp 12,647.82	Rp 12,647.82
25-Jun-15			0	16.51			Rp 12,647.82	Rp 12,647.82
26-Jun-15			0	16.51			Rp 12,647.82	Rp 12,647.82
27-Jun-15			0	16.51			Rp 12,647.82	Rp 12,647.82
28-Jun-15			0	16.51			Rp 12,647.82	Rp 12,647.82
29-Jun-15			0	16.51			Rp 12,647.82	Rp 12,647.82
30-Jun-15			0	16.51			Rp 12,647.82	Rp 12,647.82
1-Jul-15			0	16.51			Rp 12,647.82	Rp 12,647.82
2-Jul-15			0	16.51			Rp 12,647.82	Rp 12,647.82
3-Jul-15			0	16.51			Rp 12,647.82	Rp 12,647.82
4-Jul-15			0	16.51			Rp 12,647.82	Rp 12,647.82
5-Jul-15			0	16.51			Rp 12,647.82	Rp 12,647.82
6-Jul-15			0	16.51			Rp 12,647.82	Rp 12,647.82
7-Jul-15			0	16.51			Rp 12,647.82	Rp 12,647.82
8-Jul-15			0	16.51			Rp 12,647.82	Rp 12,647.82
9-Jul-15			0	16.51			Rp 12,647.82	Rp 12,647.82
10-Jul-15			0	16.51			Rp 12,647.82	Rp 12,647.82
11-Jul-15			0	16.51			Rp 12,647.82	Rp 12,647.82
12-Jul-15			0	16.51			Rp 12,647.82	Rp 12,647.82
13-Jul-15			0	16.51			Rp 12,647.82	Rp 12,647.82
14-Jul-15			0	16.51			Rp 12,647.82	Rp 12,647.82
15-Jul-15			0	16.51			Rp 12,647.82	Rp 12,647.82
16-Jul-15			2.95	13.56			Rp 10,387.91	Rp 10,387.91
17-Jul-15			0	13.56			Rp 10,387.91	Rp 10,387.91
18-Jul-15			0	13.56			Rp 10,387.91	Rp 10,387.91
19-Jul-15			0	13.56			Rp 10,387.91	Rp 10,387.91
20-Jul-15			0	13.56			Rp 10,387.91	Rp 10,387.91
21-Jul-15			0	13.56			Rp 10,387.91	Rp 10,387.91
22-Jul-15			0	13.56			Rp 10,387.91	Rp 10,387.91
23-Jul-15			0	13.56			Rp 10,387.91	Rp 10,387.91
24-Jul-15			0	13.56			Rp 10,387.91	Rp 10,387.91
25-Jul-15			0	13.56			Rp 10,387.91	Rp 10,387.91
26-Jul-15			0	13.56			Rp 10,387.91	Rp 10,387.91
27-Jul-15			0	13.56			Rp 10,387.91	Rp 10,387.91
28-Jul-15			0	13.56			Rp 10,387.91	Rp 10,387.91
29-Jul-15			1.21	12.35			Rp 9,460.96	Rp 9,460.96
30-Jul-15			0	12.35			Rp 9,460.96	Rp 9,460.96
31-Jul-15			0	12.35			Rp 9,460.96	Rp 9,460.96

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
1-Aug-15			0	12.35			Rp 9,460.96	Rp 9,460.96
2-Aug-15			0	12.35			Rp 9,460.96	Rp 9,460.96
3-Aug-15			0	12.35			Rp 9,460.96	Rp 9,460.96
4-Aug-15			0	12.35			Rp 9,460.96	Rp 9,460.96
5-Aug-15			0	12.35			Rp 9,460.96	Rp 9,460.96
6-Aug-15			0	12.35			Rp 9,460.96	Rp 9,460.96
7-Aug-15			0	12.35			Rp 9,460.96	Rp 9,460.96
8-Aug-15			0	12.35			Rp 9,460.96	Rp 9,460.96
9-Aug-15			0	12.35			Rp 9,460.96	Rp 9,460.96
10-Aug-15			1.05	11.3			Rp 8,656.59	Rp 8,656.59
11-Aug-15			0	11.3			Rp 8,656.59	Rp 8,656.59
12-Aug-15			0	11.3			Rp 8,656.59	Rp 8,656.59
13-Aug-15			0	11.3			Rp 8,656.59	Rp 8,656.59
14-Aug-15			0	11.3			Rp 8,656.59	Rp 8,656.59
15-Aug-15			0	11.3			Rp 8,656.59	Rp 8,656.59
16-Aug-15			0	11.3			Rp 8,656.59	Rp 8,656.59
17-Aug-15			0	11.3			Rp 8,656.59	Rp 8,656.59
18-Aug-15			0	11.3			Rp 8,656.59	Rp 8,656.59
19-Aug-15			0	11.3			Rp 8,656.59	Rp 8,656.59
20-Aug-15			0	11.3			Rp 8,656.59	Rp 8,656.59
21-Aug-15			0	11.3			Rp 8,656.59	Rp 8,656.59
22-Aug-15			1.33	9.97			Rp 7,637.72	Rp 7,637.72
23-Aug-15			0	9.97			Rp 7,637.72	Rp 7,637.72
24-Aug-15			0	9.97			Rp 7,637.72	Rp 7,637.72
25-Aug-15			1.65	8.32			Rp 6,373.70	Rp 6,373.70
26-Aug-15			0	8.32			Rp 6,373.70	Rp 6,373.70
27-Aug-15			0	8.32			Rp 6,373.70	Rp 6,373.70
28-Aug-15			0	8.32			Rp 6,373.70	Rp 6,373.70
29-Aug-15			0	8.32			Rp 6,373.70	Rp 6,373.70
30-Aug-15			0	8.32			Rp 6,373.70	Rp 6,373.70
31-Aug-15			0	8.32			Rp 6,373.70	Rp 6,373.70
1-Sep-15			0	8.32			Rp 6,373.70	Rp 6,373.70
2-Sep-15			0	8.32			Rp 6,373.70	Rp 6,373.70
3-Sep-15			0	8.32			Rp 6,373.70	Rp 6,373.70
4-Sep-15			0	8.32			Rp 6,373.70	Rp 6,373.70
5-Sep-15	11.63		3.48	4.84	Rp 131,774.28		Rp 3,707.78	Rp 135,482.06
6-Sep-15			0	4.84			Rp 3,707.78	Rp 3,707.78
7-Sep-15			0	4.84			Rp 3,707.78	Rp 3,707.78
8-Sep-15		11.63	0	16.47			Rp 12,617.17	Rp 12,617.17
9-Sep-15			0	16.47			Rp 12,617.17	Rp 12,617.17
10-Sep-15			0	16.47			Rp 12,617.17	Rp 12,617.17
11-Sep-15			0	16.47			Rp 12,617.17	Rp 12,617.17
12-Sep-15			0	16.47			Rp 12,617.17	Rp 12,617.17
13-Sep-15			0	16.47			Rp 12,617.17	Rp 12,617.17
14-Sep-15			0.29	16.18			Rp 12,395.01	Rp 12,395.01
15-Sep-15			0	16.18			Rp 12,395.01	Rp 12,395.01
16-Sep-15			0	16.18			Rp 12,395.01	Rp 12,395.01
17-Sep-15			0	16.18			Rp 12,395.01	Rp 12,395.01
18-Sep-15			0	16.18			Rp 12,395.01	Rp 12,395.01
19-Sep-15			0	16.18			Rp 12,395.01	Rp 12,395.01
20-Sep-15			0	16.18			Rp 12,395.01	Rp 12,395.01
21-Sep-15			0	16.18			Rp 12,395.01	Rp 12,395.01
22-Sep-15			0	16.18			Rp 12,395.01	Rp 12,395.01
23-Sep-15			0	16.18			Rp 12,395.01	Rp 12,395.01
24-Sep-15			0	16.18			Rp 12,395.01	Rp 12,395.01
25-Sep-15			0	16.18			Rp 12,395.01	Rp 12,395.01
26-Sep-15			0	16.18			Rp 12,395.01	Rp 12,395.01
27-Sep-15			2.65	13.53			Rp 10,364.93	Rp 10,364.93
28-Sep-15			0	13.53			Rp 10,364.93	Rp 10,364.93
29-Sep-15			0	13.53			Rp 10,364.93	Rp 10,364.93
30-Sep-15			0	13.53			Rp 10,364.93	Rp 10,364.93
1-Oct-15			0	13.53			Rp 10,364.93	Rp 10,364.93
2-Oct-15			0	13.53			Rp 10,364.93	Rp 10,364.93
3-Oct-15			0	13.53			Rp 10,364.93	Rp 10,364.93
4-Oct-15			0	13.53			Rp 10,364.93	Rp 10,364.93
5-Oct-15			0	13.53			Rp 10,364.93	Rp 10,364.93
6-Oct-15			0	13.53			Rp 10,364.93	Rp 10,364.93
7-Oct-15			0	13.53			Rp 10,364.93	Rp 10,364.93
8-Oct-15			0	13.53			Rp 10,364.93	Rp 10,364.93
9-Oct-15			0	13.53			Rp 10,364.93	Rp 10,364.93
10-Oct-15			0	13.53			Rp 10,364.93	Rp 10,364.93
11-Oct-15			0	13.53			Rp 10,364.93	Rp 10,364.93
12-Oct-15			0	13.53			Rp 10,364.93	Rp 10,364.93
13-Oct-15			1.21	12.32			Rp 9,437.98	Rp 9,437.98

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
14-Oct-15			0	12.32			Rp 9,437.98	Rp 9,437.98
15-Oct-15			3.86	8.46			Rp 6,480.95	Rp 6,480.95
16-Oct-15			0	8.46			Rp 6,480.95	Rp 6,480.95
17-Oct-15			0	8.46			Rp 6,480.95	Rp 6,480.95
18-Oct-15			0	8.46			Rp 6,480.95	Rp 6,480.95
19-Oct-15			0	8.46			Rp 6,480.95	Rp 6,480.95
20-Oct-15	11.63		5.74	2.72	Rp 131,774.28		Rp 2,083.71	Rp 133,857.99
21-Oct-15			0	2.72			Rp 2,083.71	Rp 2,083.71
22-Oct-15			0	2.72			Rp 2,083.71	Rp 2,083.71
23-Oct-15		11.63	0	14.35			Rp 10,993.10	Rp 10,993.10
24-Oct-15			0	14.35			Rp 10,993.10	Rp 10,993.10
25-Oct-15			0	14.35			Rp 10,993.10	Rp 10,993.10
26-Oct-15			0	14.35			Rp 10,993.10	Rp 10,993.10
27-Oct-15			0	14.35			Rp 10,993.10	Rp 10,993.10
28-Oct-15			0	14.35			Rp 10,993.10	Rp 10,993.10
29-Oct-15			0	14.35			Rp 10,993.10	Rp 10,993.10
30-Oct-15			0	14.35			Rp 10,993.10	Rp 10,993.10
31-Oct-15			0	14.35			Rp 10,993.10	Rp 10,993.10
1-Nov-15			0	14.35			Rp 10,993.10	Rp 10,993.10
2-Nov-15			0	14.35			Rp 10,993.10	Rp 10,993.10
3-Nov-15			0	14.35			Rp 10,993.10	Rp 10,993.10
4-Nov-15			0	14.35			Rp 10,993.10	Rp 10,993.10
5-Nov-15			0	14.35			Rp 10,993.10	Rp 10,993.10
6-Nov-15			0	14.35			Rp 10,993.10	Rp 10,993.10
7-Nov-15			0	14.35			Rp 10,993.10	Rp 10,993.10
8-Nov-15			1.29	13.06			Rp 10,004.87	Rp 10,004.87
9-Nov-15			0	13.06			Rp 10,004.87	Rp 10,004.87
10-Nov-15			0.95	12.11			Rp 9,277.11	Rp 9,277.11
11-Nov-15			0	12.11			Rp 9,277.11	Rp 9,277.11
12-Nov-15			0	12.11			Rp 9,277.11	Rp 9,277.11
13-Nov-15			0	12.11			Rp 9,277.11	Rp 9,277.11
14-Nov-15			0	12.11			Rp 9,277.11	Rp 9,277.11
15-Nov-15			0	12.11			Rp 9,277.11	Rp 9,277.11
16-Nov-15			0	12.11			Rp 9,277.11	Rp 9,277.11
17-Nov-15			0.53	11.58			Rp 8,871.09	Rp 8,871.09
18-Nov-15			0	11.58			Rp 8,871.09	Rp 8,871.09
19-Nov-15			0	11.58			Rp 8,871.09	Rp 8,871.09
20-Nov-15			0	11.58			Rp 8,871.09	Rp 8,871.09
21-Nov-15			0	11.58			Rp 8,871.09	Rp 8,871.09
22-Nov-15	11.63		8.24	3.34	Rp 131,774.28		Rp 2,558.67	Rp 134,332.95
23-Nov-15			0	3.34			Rp 2,558.67	Rp 2,558.67
24-Nov-15			0	3.34			Rp 2,558.67	Rp 2,558.67
25-Nov-15		11.63	0	14.97			Rp 11,468.07	Rp 11,468.07
26-Nov-15			0	14.97			Rp 11,468.07	Rp 11,468.07
27-Nov-15			0	14.97			Rp 11,468.07	Rp 11,468.07
28-Nov-15			0	14.97			Rp 11,468.07	Rp 11,468.07
29-Nov-15			0.97	14			Rp 10,724.98	Rp 10,724.98
30-Nov-15			0	14			Rp 10,724.98	Rp 10,724.98
1-Dec-15			0	14			Rp 10,724.98	Rp 10,724.98
2-Dec-15			0	14			Rp 10,724.98	Rp 10,724.98
3-Dec-15			0	14			Rp 10,724.98	Rp 10,724.98
4-Dec-15			0	14			Rp 10,724.98	Rp 10,724.98
5-Dec-15			0	14			Rp 10,724.98	Rp 10,724.98
6-Dec-15			0	14			Rp 10,724.98	Rp 10,724.98
7-Dec-15			0	14			Rp 10,724.98	Rp 10,724.98
8-Dec-15			0	14			Rp 10,724.98	Rp 10,724.98
9-Dec-15			0	14			Rp 10,724.98	Rp 10,724.98
10-Dec-15			0	14			Rp 10,724.98	Rp 10,724.98
11-Dec-15			0	14			Rp 10,724.98	Rp 10,724.98
12-Dec-15			0	14			Rp 10,724.98	Rp 10,724.98
13-Dec-15			0	14			Rp 10,724.98	Rp 10,724.98
14-Dec-15			0	14			Rp 10,724.98	Rp 10,724.98
15-Dec-15			0	14			Rp 10,724.98	Rp 10,724.98
16-Dec-15			0	14			Rp 10,724.98	Rp 10,724.98
17-Dec-15			0	14			Rp 10,724.98	Rp 10,724.98
18-Dec-15			0.34	13.66			Rp 10,464.52	Rp 10,464.52
19-Dec-15			0	13.66			Rp 10,464.52	Rp 10,464.52
20-Dec-15			0	13.66			Rp 10,464.52	Rp 10,464.52
21-Dec-15			0	13.66			Rp 10,464.52	Rp 10,464.52
22-Dec-15			0	13.66			Rp 10,464.52	Rp 10,464.52
23-Dec-15			0	13.66			Rp 10,464.52	Rp 10,464.52
24-Dec-15			0	13.66			Rp 10,464.52	Rp 10,464.52
25-Dec-15			0	13.66			Rp 10,464.52	Rp 10,464.52
26-Dec-15			0.14	13.52			Rp 10,357.27	Rp 10,357.27

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
27-Dec-15			0	13.52			Rp 10,357.27	Rp 10,357.27
28-Dec-15			0	13.52			Rp 10,357.27	Rp 10,357.27
29-Dec-15			0	13.52			Rp 10,357.27	Rp 10,357.27
30-Dec-15			0	13.52			Rp 10,357.27	Rp 10,357.27
31-Dec-15			0	13.52			Rp 10,357.27	Rp 10,357.27
								Rp 8,528,989.38

Replication 2

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
3-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
4-Jan-15			0.25	84.5			Rp 64,732.92	Rp 64,732.92
5-Jan-15			0	84.5			Rp 64,732.92	Rp 64,732.92
6-Jan-15			0	84.5			Rp 64,732.92	Rp 64,732.92
7-Jan-15			1.01	83.49			Rp 63,959.18	Rp 63,959.18
8-Jan-15			0	83.49			Rp 63,959.18	Rp 63,959.18
9-Jan-15			0	83.49			Rp 63,959.18	Rp 63,959.18
10-Jan-15			0	83.49			Rp 63,959.18	Rp 63,959.18
11-Jan-15			0	83.49			Rp 63,959.18	Rp 63,959.18
12-Jan-15			0	83.49			Rp 63,959.18	Rp 63,959.18
13-Jan-15			0	83.49			Rp 63,959.18	Rp 63,959.18
14-Jan-15			0	83.49			Rp 63,959.18	Rp 63,959.18
15-Jan-15			3.23	80.26			Rp 61,484.78	Rp 61,484.78
16-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
17-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
18-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
19-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
20-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
21-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
22-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
23-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
24-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
25-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
26-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
27-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
28-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
29-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
30-Jan-15			1.5	78.76			Rp 60,335.67	Rp 60,335.67
31-Jan-15			0	78.76			Rp 60,335.67	Rp 60,335.67
1-Feb-15			0	78.76			Rp 60,335.67	Rp 60,335.67
2-Feb-15			0	78.76			Rp 60,335.67	Rp 60,335.67
3-Feb-15			1.17	77.59			Rp 59,439.37	Rp 59,439.37
4-Feb-15			2.09	75.5			Rp 57,838.29	Rp 57,838.29
5-Feb-15			1.38	74.12			Rp 56,781.11	Rp 56,781.11
6-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
7-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
8-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
9-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
10-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
11-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
12-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
13-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
14-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
15-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
16-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
17-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
18-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
19-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
20-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
21-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
22-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
23-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
24-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
25-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
26-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
27-Feb-15			3.07	71.05			Rp 54,429.27	Rp 54,429.27
28-Feb-15			0	71.05			Rp 54,429.27	Rp 54,429.27
1-Mar-15			0	71.05			Rp 54,429.27	Rp 54,429.27

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
2-Mar-15			0	71.05			Rp 54,429.27	Rp 54,429.27
3-Mar-15			0	71.05			Rp 54,429.27	Rp 54,429.27
4-Mar-15			0	71.05			Rp 54,429.27	Rp 54,429.27
5-Mar-15			0	71.05			Rp 54,429.27	Rp 54,429.27
6-Mar-15			0	71.05			Rp 54,429.27	Rp 54,429.27
7-Mar-15			0	71.05			Rp 54,429.27	Rp 54,429.27
8-Mar-15			0	71.05			Rp 54,429.27	Rp 54,429.27
9-Mar-15			0	71.05			Rp 54,429.27	Rp 54,429.27
10-Mar-15			0.13	70.92			Rp 54,329.68	Rp 54,329.68
11-Mar-15			0	70.92			Rp 54,329.68	Rp 54,329.68
12-Mar-15			0	70.92			Rp 54,329.68	Rp 54,329.68
13-Mar-15			0	70.92			Rp 54,329.68	Rp 54,329.68
14-Mar-15			0	70.92			Rp 54,329.68	Rp 54,329.68
15-Mar-15			0	70.92			Rp 54,329.68	Rp 54,329.68
16-Mar-15			0	70.92			Rp 54,329.68	Rp 54,329.68
17-Mar-15			0	70.92			Rp 54,329.68	Rp 54,329.68
18-Mar-15			0	70.92			Rp 54,329.68	Rp 54,329.68
19-Mar-15			0	70.92			Rp 54,329.68	Rp 54,329.68
20-Mar-15			2.51	68.41			Rp 52,406.85	Rp 52,406.85
21-Mar-15			0	68.41			Rp 52,406.85	Rp 52,406.85
22-Mar-15			0.18	68.23			Rp 52,268.96	Rp 52,268.96
23-Mar-15			0	68.23			Rp 52,268.96	Rp 52,268.96
24-Mar-15			0	68.23			Rp 52,268.96	Rp 52,268.96
25-Mar-15			0	68.23			Rp 52,268.96	Rp 52,268.96
26-Mar-15			0	68.23			Rp 52,268.96	Rp 52,268.96
27-Mar-15			0	68.23			Rp 52,268.96	Rp 52,268.96
28-Mar-15			0	68.23			Rp 52,268.96	Rp 52,268.96
29-Mar-15			0	68.23			Rp 52,268.96	Rp 52,268.96
30-Mar-15			0	68.23			Rp 52,268.96	Rp 52,268.96
31-Mar-15			0	68.23			Rp 52,268.96	Rp 52,268.96
1-Apr-15			0	68.23			Rp 52,268.96	Rp 52,268.96
2-Apr-15			0	68.23			Rp 52,268.96	Rp 52,268.96
3-Apr-15			0	68.23			Rp 52,268.96	Rp 52,268.96
4-Apr-15			0	68.23			Rp 52,268.96	Rp 52,268.96
5-Apr-15			1.51	66.72			Rp 51,112.19	Rp 51,112.19
6-Apr-15			0	66.72			Rp 51,112.19	Rp 51,112.19
7-Apr-15			0	66.72			Rp 51,112.19	Rp 51,112.19
8-Apr-15			0	66.72			Rp 51,112.19	Rp 51,112.19
9-Apr-15			0	66.72			Rp 51,112.19	Rp 51,112.19
10-Apr-15			0	66.72			Rp 51,112.19	Rp 51,112.19
11-Apr-15			0	66.72			Rp 51,112.19	Rp 51,112.19
12-Apr-15			0	66.72			Rp 51,112.19	Rp 51,112.19
13-Apr-15			0	66.72			Rp 51,112.19	Rp 51,112.19
14-Apr-15			5.86	60.86			Rp 46,623.02	Rp 46,623.02
15-Apr-15			0	60.86			Rp 46,623.02	Rp 46,623.02
16-Apr-15			0	60.86			Rp 46,623.02	Rp 46,623.02
17-Apr-15			1.37	59.49			Rp 45,573.50	Rp 45,573.50
18-Apr-15			0	59.49			Rp 45,573.50	Rp 45,573.50
19-Apr-15			0	59.49			Rp 45,573.50	Rp 45,573.50
20-Apr-15			0	59.49			Rp 45,573.50	Rp 45,573.50
21-Apr-15			0	59.49			Rp 45,573.50	Rp 45,573.50
22-Apr-15			0	59.49			Rp 45,573.50	Rp 45,573.50
23-Apr-15			1.14	58.35			Rp 44,700.18	Rp 44,700.18
24-Apr-15			0	58.35			Rp 44,700.18	Rp 44,700.18
25-Apr-15			0	58.35			Rp 44,700.18	Rp 44,700.18
26-Apr-15			0	58.35			Rp 44,700.18	Rp 44,700.18
27-Apr-15			0	58.35			Rp 44,700.18	Rp 44,700.18
28-Apr-15			0	58.35			Rp 44,700.18	Rp 44,700.18
29-Apr-15			0	58.35			Rp 44,700.18	Rp 44,700.18
30-Apr-15			0	58.35			Rp 44,700.18	Rp 44,700.18
1-May-15			0.58	57.77			Rp 44,255.86	Rp 44,255.86
2-May-15			0	57.77			Rp 44,255.86	Rp 44,255.86
3-May-15			0	57.77			Rp 44,255.86	Rp 44,255.86
4-May-15			1.96	55.81			Rp 42,754.37	Rp 42,754.37
5-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
6-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
7-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
8-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
9-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
10-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
11-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
12-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
13-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
14-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
15-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
16-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
17-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
18-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
19-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
20-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
21-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
22-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
23-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
24-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
25-May-15			3.01	52.8			Rp 40,448.50	Rp 40,448.50
26-May-15			0	52.8			Rp 40,448.50	Rp 40,448.50
27-May-15			0	52.8			Rp 40,448.50	Rp 40,448.50
28-May-15			0	52.8			Rp 40,448.50	Rp 40,448.50
29-May-15			0.85	51.95			Rp 39,797.34	Rp 39,797.34
30-May-15			0	51.95			Rp 39,797.34	Rp 39,797.34
31-May-15			7.4	44.55			Rp 34,128.42	Rp 34,128.42
1-Jun-15			0	44.55			Rp 34,128.42	Rp 34,128.42
2-Jun-15			0	44.55			Rp 34,128.42	Rp 34,128.42
3-Jun-15			0	44.55			Rp 34,128.42	Rp 34,128.42
4-Jun-15			0	44.55			Rp 34,128.42	Rp 34,128.42
5-Jun-15			0	44.55			Rp 34,128.42	Rp 34,128.42
6-Jun-15			0	44.55			Rp 34,128.42	Rp 34,128.42
7-Jun-15			0	44.55			Rp 34,128.42	Rp 34,128.42
8-Jun-15			0	44.55			Rp 34,128.42	Rp 34,128.42
9-Jun-15			0	44.55			Rp 34,128.42	Rp 34,128.42
10-Jun-15			0	44.55			Rp 34,128.42	Rp 34,128.42
11-Jun-15			2.01	42.54			Rp 32,588.62	Rp 32,588.62
12-Jun-15			0	42.54			Rp 32,588.62	Rp 32,588.62
13-Jun-15			0	42.54			Rp 32,588.62	Rp 32,588.62
14-Jun-15			0	42.54			Rp 32,588.62	Rp 32,588.62
15-Jun-15			0	42.54			Rp 32,588.62	Rp 32,588.62
16-Jun-15			0	42.54			Rp 32,588.62	Rp 32,588.62
17-Jun-15			0	42.54			Rp 32,588.62	Rp 32,588.62
18-Jun-15			0	42.54			Rp 32,588.62	Rp 32,588.62
19-Jun-15			0	42.54			Rp 32,588.62	Rp 32,588.62
20-Jun-15			0.87	41.67			Rp 31,922.14	Rp 31,922.14
21-Jun-15			0	41.67			Rp 31,922.14	Rp 31,922.14
22-Jun-15			0.63	41.04			Rp 31,439.51	Rp 31,439.51
23-Jun-15			0	41.04			Rp 31,439.51	Rp 31,439.51
24-Jun-15			0	41.04			Rp 31,439.51	Rp 31,439.51
25-Jun-15			0	41.04			Rp 31,439.51	Rp 31,439.51
26-Jun-15			0	41.04			Rp 31,439.51	Rp 31,439.51
27-Jun-15			0	41.04			Rp 31,439.51	Rp 31,439.51
28-Jun-15			0	41.04			Rp 31,439.51	Rp 31,439.51
29-Jun-15			0	41.04			Rp 31,439.51	Rp 31,439.51
30-Jun-15			0	41.04			Rp 31,439.51	Rp 31,439.51
1-Jul-15			0.93	40.11			Rp 30,727.07	Rp 30,727.07
2-Jul-15			0	40.11			Rp 30,727.07	Rp 30,727.07
3-Jul-15			0	40.11			Rp 30,727.07	Rp 30,727.07
4-Jul-15			0	40.11			Rp 30,727.07	Rp 30,727.07
5-Jul-15			0	40.11			Rp 30,727.07	Rp 30,727.07
6-Jul-15			0	40.11			Rp 30,727.07	Rp 30,727.07
7-Jul-15			0	40.11			Rp 30,727.07	Rp 30,727.07
8-Jul-15			0	40.11			Rp 30,727.07	Rp 30,727.07
9-Jul-15			0	40.11			Rp 30,727.07	Rp 30,727.07
10-Jul-15			0	40.11			Rp 30,727.07	Rp 30,727.07
11-Jul-15			0	40.11			Rp 30,727.07	Rp 30,727.07
12-Jul-15			1.27	38.84			Rp 29,754.16	Rp 29,754.16
13-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
14-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
15-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
16-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
17-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
18-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
19-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
20-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
21-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
22-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
23-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
24-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
25-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
26-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
27-Jul-15			0.28	38.56			Rp 29,539.66	Rp 29,539.66

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
28-Jul-15			0	38.56			Rp 29,539.66	Rp 29,539.66
29-Jul-15			0	38.56			Rp 29,539.66	Rp 29,539.66
30-Jul-15			0	38.56			Rp 29,539.66	Rp 29,539.66
31-Jul-15			0	38.56			Rp 29,539.66	Rp 29,539.66
1-Aug-15			0	38.56			Rp 29,539.66	Rp 29,539.66
2-Aug-15			2.37	36.19			Rp 27,724.07	Rp 27,724.07
3-Aug-15			0	36.19			Rp 27,724.07	Rp 27,724.07
4-Aug-15			0.93	35.26			Rp 27,011.63	Rp 27,011.63
5-Aug-15			0	35.26			Rp 27,011.63	Rp 27,011.63
6-Aug-15			0	35.26			Rp 27,011.63	Rp 27,011.63
7-Aug-15			0	35.26			Rp 27,011.63	Rp 27,011.63
8-Aug-15			0	35.26			Rp 27,011.63	Rp 27,011.63
9-Aug-15			0	35.26			Rp 27,011.63	Rp 27,011.63
10-Aug-15			0	35.26			Rp 27,011.63	Rp 27,011.63
11-Aug-15			0	35.26			Rp 27,011.63	Rp 27,011.63
12-Aug-15			0	35.26			Rp 27,011.63	Rp 27,011.63
13-Aug-15			0	35.26			Rp 27,011.63	Rp 27,011.63
14-Aug-15			3.06	32.2			Rp 24,667.45	Rp 24,667.45
15-Aug-15			0	32.2			Rp 24,667.45	Rp 24,667.45
16-Aug-15			0	32.2			Rp 24,667.45	Rp 24,667.45
17-Aug-15			0	32.2			Rp 24,667.45	Rp 24,667.45
18-Aug-15			2.81	29.39			Rp 22,514.80	Rp 22,514.80
19-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
20-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
21-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
22-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
23-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
24-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
25-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
26-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
27-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
28-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
29-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
30-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
31-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
1-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
2-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
3-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
4-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
5-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
6-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
7-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
8-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
9-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
10-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
11-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
12-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
13-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
14-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
15-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
16-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
17-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
18-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
19-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
20-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
21-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
22-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
23-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
24-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
25-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
26-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
27-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
28-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
29-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
30-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
1-Oct-15			2.34	27.05			Rp 20,722.19	Rp 20,722.19
2-Oct-15			0	27.05			Rp 20,722.19	Rp 20,722.19
3-Oct-15			0	27.05			Rp 20,722.19	Rp 20,722.19
4-Oct-15			0	27.05			Rp 20,722.19	Rp 20,722.19
5-Oct-15			17.94	9.11			Rp 6,978.90	Rp 6,978.90
6-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
7-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
8-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
9-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
10-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
11-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
12-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
13-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
14-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
15-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
16-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
17-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
18-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
19-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
20-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
21-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
22-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
23-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
24-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
25-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
26-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
27-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
28-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
29-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
30-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
31-Oct-15			0.64	8.47			Rp 6,488.61	Rp 6,488.61
1-Nov-15			0	8.47			Rp 6,488.61	Rp 6,488.61
2-Nov-15			0	8.47			Rp 6,488.61	Rp 6,488.61
3-Nov-15			0	8.47			Rp 6,488.61	Rp 6,488.61
4-Nov-15			0	8.47			Rp 6,488.61	Rp 6,488.61
5-Nov-15			0	8.47			Rp 6,488.61	Rp 6,488.61
6-Nov-15			0	8.47			Rp 6,488.61	Rp 6,488.61
7-Nov-15			0	8.47			Rp 6,488.61	Rp 6,488.61
8-Nov-15			0	8.47			Rp 6,488.61	Rp 6,488.61
9-Nov-15			0	8.47			Rp 6,488.61	Rp 6,488.61
10-Nov-15	11.63		5.35	3.12	Rp 131,774.28		Rp 2,390.14	Rp 134,164.42
11-Nov-15		11.63	0	14.75			Rp 11,299.53	Rp 11,299.53
12-Nov-15			0	14.75			Rp 11,299.53	Rp 11,299.53
13-Nov-15			0	14.75			Rp 11,299.53	Rp 11,299.53
14-Nov-15			0	14.75			Rp 11,299.53	Rp 11,299.53
15-Nov-15			0	14.75			Rp 11,299.53	Rp 11,299.53
16-Nov-15			0	14.75			Rp 11,299.53	Rp 11,299.53
17-Nov-15			0	14.75			Rp 11,299.53	Rp 11,299.53
18-Nov-15			0.29	14.46			Rp 11,077.37	Rp 11,077.37
19-Nov-15			3.8	10.66			Rp 8,166.31	Rp 8,166.31
20-Nov-15			0	10.66			Rp 8,166.31	Rp 8,166.31
21-Nov-15			3.99	6.67			Rp 5,109.69	Rp 5,109.69
22-Nov-15			0	6.67			Rp 5,109.69	Rp 5,109.69
23-Nov-15			0	6.67			Rp 5,109.69	Rp 5,109.69
24-Nov-15			0	6.67			Rp 5,109.69	Rp 5,109.69
25-Nov-15			0	6.67			Rp 5,109.69	Rp 5,109.69
26-Nov-15			0	6.67			Rp 5,109.69	Rp 5,109.69
27-Nov-15			0	6.67			Rp 5,109.69	Rp 5,109.69
28-Nov-15			0	6.67			Rp 5,109.69	Rp 5,109.69
29-Nov-15			0	6.67			Rp 5,109.69	Rp 5,109.69
30-Nov-15			0	6.67			Rp 5,109.69	Rp 5,109.69
1-Dec-15			0	6.67			Rp 5,109.69	Rp 5,109.69
2-Dec-15			0	6.67			Rp 5,109.69	Rp 5,109.69
3-Dec-15			0	6.67			Rp 5,109.69	Rp 5,109.69
4-Dec-15			0	6.67			Rp 5,109.69	Rp 5,109.69
5-Dec-15			0	6.67			Rp 5,109.69	Rp 5,109.69
6-Dec-15			0	6.67			Rp 5,109.69	Rp 5,109.69
7-Dec-15			0	6.67			Rp 5,109.69	Rp 5,109.69
8-Dec-15			0	6.67			Rp 5,109.69	Rp 5,109.69
9-Dec-15			0	6.67			Rp 5,109.69	Rp 5,109.69
10-Dec-15			0	6.67			Rp 5,109.69	Rp 5,109.69
11-Dec-15			0	6.67			Rp 5,109.69	Rp 5,109.69
12-Dec-15			0	6.67			Rp 5,109.69	Rp 5,109.69
13-Dec-15			0	6.67			Rp 5,109.69	Rp 5,109.69
14-Dec-15			0	6.67			Rp 5,109.69	Rp 5,109.69
15-Dec-15			0	6.67			Rp 5,109.69	Rp 5,109.69
16-Dec-15			0	6.67			Rp 5,109.69	Rp 5,109.69
17-Dec-15			0	6.67			Rp 5,109.69	Rp 5,109.69
18-Dec-15			0	6.67			Rp 5,109.69	Rp 5,109.69
19-Dec-15			0	6.67			Rp 5,109.69	Rp 5,109.69
20-Dec-15			0	6.67			Rp 5,109.69	Rp 5,109.69
21-Dec-15	11.63		1.47	5.2	Rp 131,774.28		Rp 3,983.56	Rp 135,757.84
22-Dec-15			0	5.2			Rp 3,983.56	Rp 3,983.56

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
23-Dec-15			0	5.2			Rp 3,983.56	Rp 3,983.56
24-Dec-15		11.63	0	16.83			Rp 12,892.96	Rp 12,892.96
25-Dec-15			0	16.83			Rp 12,892.96	Rp 12,892.96
26-Dec-15			0	16.83			Rp 12,892.96	Rp 12,892.96
27-Dec-15			0	16.83			Rp 12,892.96	Rp 12,892.96
28-Dec-15			1.47	15.36			Rp 11,766.84	Rp 11,766.84
29-Dec-15			0	15.36			Rp 11,766.84	Rp 11,766.84
30-Dec-15			0	15.36			Rp 11,766.84	Rp 11,766.84
31-Dec-15			0	15.36			Rp 11,766.84	Rp 11,766.84
								Rp 12,334,659.10

Replication 3

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			3.01	81.74			Rp 62,618.56	Rp 62,618.56
3-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
4-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
5-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
6-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
7-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
8-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
9-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
10-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
11-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
12-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
13-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
14-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
15-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
16-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
17-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
18-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
19-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
20-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
21-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
22-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
23-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
24-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
25-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
26-Jan-15			1.39	80.35			Rp 61,553.72	Rp 61,553.72
27-Jan-15			0	80.35			Rp 61,553.72	Rp 61,553.72
28-Jan-15			0	80.35			Rp 61,553.72	Rp 61,553.72
29-Jan-15			0	80.35			Rp 61,553.72	Rp 61,553.72
30-Jan-15			0	80.35			Rp 61,553.72	Rp 61,553.72
31-Jan-15			2.48	77.87			Rp 59,653.87	Rp 59,653.87
1-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
2-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
3-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
4-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
5-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
6-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
7-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
8-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
9-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
10-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
11-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
12-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
13-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
14-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
15-Feb-15			0.43	77.44			Rp 59,324.46	Rp 59,324.46
16-Feb-15			0	77.44			Rp 59,324.46	Rp 59,324.46
17-Feb-15			0	77.44			Rp 59,324.46	Rp 59,324.46
18-Feb-15			3.56	73.88			Rp 56,597.25	Rp 56,597.25
19-Feb-15			0	73.88			Rp 56,597.25	Rp 56,597.25
20-Feb-15			0	73.88			Rp 56,597.25	Rp 56,597.25
21-Feb-15			0	73.88			Rp 56,597.25	Rp 56,597.25
22-Feb-15			1.57	72.31			Rp 55,394.52	Rp 55,394.52
23-Feb-15			0	72.31			Rp 55,394.52	Rp 55,394.52
24-Feb-15			0	72.31			Rp 55,394.52	Rp 55,394.52
25-Feb-15			0.63	71.68			Rp 54,911.90	Rp 54,911.90

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
26-Feb-15			3.42	68.26			Rp 52,291.94	Rp 52,291.94
27-Feb-15			0	68.26			Rp 52,291.94	Rp 52,291.94
28-Feb-15			0	68.26			Rp 52,291.94	Rp 52,291.94
1-Mar-15			0	68.26			Rp 52,291.94	Rp 52,291.94
2-Mar-15			0.82	67.44			Rp 51,663.76	Rp 51,663.76
3-Mar-15			0	67.44			Rp 51,663.76	Rp 51,663.76
4-Mar-15			0	67.44			Rp 51,663.76	Rp 51,663.76
5-Mar-15			0	67.44			Rp 51,663.76	Rp 51,663.76
6-Mar-15			0	67.44			Rp 51,663.76	Rp 51,663.76
7-Mar-15			0	67.44			Rp 51,663.76	Rp 51,663.76
8-Mar-15			0	67.44			Rp 51,663.76	Rp 51,663.76
9-Mar-15			0	67.44			Rp 51,663.76	Rp 51,663.76
10-Mar-15			0	67.44			Rp 51,663.76	Rp 51,663.76
11-Mar-15			0	67.44			Rp 51,663.76	Rp 51,663.76
12-Mar-15			8.5	58.94			Rp 45,152.17	Rp 45,152.17
13-Mar-15			0	58.94			Rp 45,152.17	Rp 45,152.17
14-Mar-15			0.35	58.59			Rp 44,884.04	Rp 44,884.04
15-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
16-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
17-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
18-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
19-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
20-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
21-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
22-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
23-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
24-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
25-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
26-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
27-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
28-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
29-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
30-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
31-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
1-Apr-15			0	58.59			Rp 44,884.04	Rp 44,884.04
2-Apr-15			0.26	58.33			Rp 44,684.86	Rp 44,684.86
3-Apr-15			0	58.33			Rp 44,684.86	Rp 44,684.86
4-Apr-15			8.74	49.59			Rp 37,989.41	Rp 37,989.41
5-Apr-15			0	49.59			Rp 37,989.41	Rp 37,989.41
6-Apr-15			0	49.59			Rp 37,989.41	Rp 37,989.41
7-Apr-15			0	49.59			Rp 37,989.41	Rp 37,989.41
8-Apr-15			0	49.59			Rp 37,989.41	Rp 37,989.41
9-Apr-15			0	49.59			Rp 37,989.41	Rp 37,989.41
10-Apr-15			0	49.59			Rp 37,989.41	Rp 37,989.41
11-Apr-15			0	49.59			Rp 37,989.41	Rp 37,989.41
12-Apr-15			0	49.59			Rp 37,989.41	Rp 37,989.41
13-Apr-15			0	49.59			Rp 37,989.41	Rp 37,989.41
14-Apr-15			0	49.59			Rp 37,989.41	Rp 37,989.41
15-Apr-15			3.49	46.1			Rp 35,315.83	Rp 35,315.83
16-Apr-15			0	46.1			Rp 35,315.83	Rp 35,315.83
17-Apr-15			17.7	28.4			Rp 21,756.39	Rp 21,756.39
18-Apr-15			0.55	27.85			Rp 21,335.05	Rp 21,335.05
19-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
20-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
21-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
22-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
23-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
24-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
25-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
26-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
27-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
28-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
29-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
30-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
1-May-15			0	27.85			Rp 21,335.05	Rp 21,335.05
2-May-15			0	27.85			Rp 21,335.05	Rp 21,335.05
3-May-15			0	27.85			Rp 21,335.05	Rp 21,335.05
4-May-15			0	27.85			Rp 21,335.05	Rp 21,335.05
5-May-15			1.56	26.29			Rp 20,139.98	Rp 20,139.98
6-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
7-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
8-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
9-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
10-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
11-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
12-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
13-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
14-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
15-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
16-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
17-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
18-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
19-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
20-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
21-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
22-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
23-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
24-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
25-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
26-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
27-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
28-May-15			1.77	24.52			Rp 18,784.04	Rp 18,784.04
29-May-15			0	24.52			Rp 18,784.04	Rp 18,784.04
30-May-15			0	24.52			Rp 18,784.04	Rp 18,784.04
31-May-15			0	24.52			Rp 18,784.04	Rp 18,784.04
1-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
2-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
3-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
4-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
5-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
6-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
7-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
8-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
9-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
10-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
11-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
12-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
13-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
14-Jun-15			1.42	23.1			Rp 17,696.22	Rp 17,696.22
15-Jun-15			0	23.1			Rp 17,696.22	Rp 17,696.22
16-Jun-15			0	23.1			Rp 17,696.22	Rp 17,696.22
17-Jun-15			0	23.1			Rp 17,696.22	Rp 17,696.22
18-Jun-15			0	23.1			Rp 17,696.22	Rp 17,696.22
19-Jun-15			0	23.1			Rp 17,696.22	Rp 17,696.22
20-Jun-15			0	23.1			Rp 17,696.22	Rp 17,696.22
21-Jun-15			3.54	19.56			Rp 14,984.33	Rp 14,984.33
22-Jun-15			0.46	19.1			Rp 14,631.94	Rp 14,631.94
23-Jun-15			0	19.1			Rp 14,631.94	Rp 14,631.94
24-Jun-15			0	19.1			Rp 14,631.94	Rp 14,631.94
25-Jun-15			0	19.1			Rp 14,631.94	Rp 14,631.94
26-Jun-15			0	19.1			Rp 14,631.94	Rp 14,631.94
27-Jun-15			0	19.1			Rp 14,631.94	Rp 14,631.94
28-Jun-15			0	19.1			Rp 14,631.94	Rp 14,631.94
29-Jun-15			0	19.1			Rp 14,631.94	Rp 14,631.94
30-Jun-15			0	19.1			Rp 14,631.94	Rp 14,631.94
1-Jul-15			0	19.1			Rp 14,631.94	Rp 14,631.94
2-Jul-15			0	19.1			Rp 14,631.94	Rp 14,631.94
3-Jul-15			0	19.1			Rp 14,631.94	Rp 14,631.94
4-Jul-15			0	19.1			Rp 14,631.94	Rp 14,631.94
5-Jul-15			0	19.1			Rp 14,631.94	Rp 14,631.94
6-Jul-15			1.1	18			Rp 13,789.26	Rp 13,789.26
7-Jul-15			0	18			Rp 13,789.26	Rp 13,789.26
8-Jul-15			0	18			Rp 13,789.26	Rp 13,789.26
9-Jul-15			0	18			Rp 13,789.26	Rp 13,789.26
10-Jul-15			2.79	15.21			Rp 11,651.92	Rp 11,651.92
11-Jul-15			0	15.21			Rp 11,651.92	Rp 11,651.92
12-Jul-15			0	15.21			Rp 11,651.92	Rp 11,651.92
13-Jul-15			0	15.21			Rp 11,651.92	Rp 11,651.92
14-Jul-15			2.08	13.13			Rp 10,058.50	Rp 10,058.50
15-Jul-15			0	13.13			Rp 10,058.50	Rp 10,058.50
16-Jul-15			0	13.13			Rp 10,058.50	Rp 10,058.50
17-Jul-15			0	13.13			Rp 10,058.50	Rp 10,058.50
18-Jul-15			1.64	11.49			Rp 8,802.14	Rp 8,802.14
19-Jul-15			0	11.49			Rp 8,802.14	Rp 8,802.14
20-Jul-15			0	11.49			Rp 8,802.14	Rp 8,802.14
21-Jul-15			0	11.49			Rp 8,802.14	Rp 8,802.14
22-Jul-15			0	11.49			Rp 8,802.14	Rp 8,802.14
23-Jul-15			0	11.49			Rp 8,802.14	Rp 8,802.14

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
24-Jul-15			0	11.49			Rp 8,802.14	Rp 8,802.14
25-Jul-15			0	11.49			Rp 8,802.14	Rp 8,802.14
26-Jul-15			0	11.49			Rp 8,802.14	Rp 8,802.14
27-Jul-15			0	11.49			Rp 8,802.14	Rp 8,802.14
28-Jul-15			0	11.49			Rp 8,802.14	Rp 8,802.14
29-Jul-15			0	11.49			Rp 8,802.14	Rp 8,802.14
30-Jul-15			0	11.49			Rp 8,802.14	Rp 8,802.14
31-Jul-15			0	11.49			Rp 8,802.14	Rp 8,802.14
1-Aug-15			0	11.49			Rp 8,802.14	Rp 8,802.14
2-Aug-15			0	11.49			Rp 8,802.14	Rp 8,802.14
3-Aug-15			0	11.49			Rp 8,802.14	Rp 8,802.14
4-Aug-15			0	11.49			Rp 8,802.14	Rp 8,802.14
5-Aug-15			0	11.49			Rp 8,802.14	Rp 8,802.14
6-Aug-15			0	11.49			Rp 8,802.14	Rp 8,802.14
7-Aug-15			0	11.49			Rp 8,802.14	Rp 8,802.14
8-Aug-15			0	11.49			Rp 8,802.14	Rp 8,802.14
9-Aug-15			0	11.49			Rp 8,802.14	Rp 8,802.14
10-Aug-15			0	11.49			Rp 8,802.14	Rp 8,802.14
11-Aug-15			0	11.49			Rp 8,802.14	Rp 8,802.14
12-Aug-15			3.96	7.53			Rp 5,768.51	Rp 5,768.51
13-Aug-15			0	7.53			Rp 5,768.51	Rp 5,768.51
14-Aug-15			0	7.53			Rp 5,768.51	Rp 5,768.51
15-Aug-15			0	7.53			Rp 5,768.51	Rp 5,768.51
16-Aug-15			0	7.53			Rp 5,768.51	Rp 5,768.51
17-Aug-15			9.93	-2.4	Rp 131,774.28	Rp 1,556,301.60	Rp 5,768.51	Rp 1,693,844.39
18-Aug-15			0	7.53			Rp 5,768.51	Rp 5,768.51
19-Aug-15			0	7.53			Rp 5,768.51	Rp 5,768.51
20-Aug-15			0	7.53			Rp 5,768.51	Rp 5,768.51
21-Aug-15			0	7.53			Rp 5,768.51	Rp 5,768.51
22-Aug-15			0	7.53			Rp 5,768.51	Rp 5,768.51
23-Aug-15			0	7.53			Rp 5,768.51	Rp 5,768.51
24-Aug-15			0	7.53			Rp 5,768.51	Rp 5,768.51
25-Aug-15			0	7.53			Rp 5,768.51	Rp 5,768.51
26-Aug-15			0	7.53			Rp 5,768.51	Rp 5,768.51
27-Aug-15	11.63		1.12	6.41			Rp 4,910.51	Rp 4,910.51
28-Aug-15			0	6.41			Rp 4,910.51	Rp 4,910.51
29-Aug-15			0	6.41			Rp 4,910.51	Rp 4,910.51
30-Aug-15		11.63	0	18.04			Rp 13,819.90	Rp 13,819.90
31-Aug-15			0	18.04			Rp 13,819.90	Rp 13,819.90
1-Sep-15			3.02	15.02			Rp 11,506.37	Rp 11,506.37
2-Sep-15			0.72	14.3			Rp 10,954.80	Rp 10,954.80
3-Sep-15			3.57	10.73			Rp 8,219.93	Rp 8,219.93
4-Sep-15			0	10.73			Rp 8,219.93	Rp 8,219.93
5-Sep-15			0	10.73			Rp 8,219.93	Rp 8,219.93
6-Sep-15			0	10.73			Rp 8,219.93	Rp 8,219.93
7-Sep-15			0	10.73			Rp 8,219.93	Rp 8,219.93
8-Sep-15			0	10.73			Rp 8,219.93	Rp 8,219.93
9-Sep-15			0	10.73			Rp 8,219.93	Rp 8,219.93
10-Sep-15			0	10.73			Rp 8,219.93	Rp 8,219.93
11-Sep-15			0	10.73			Rp 8,219.93	Rp 8,219.93
12-Sep-15			0	10.73			Rp 8,219.93	Rp 8,219.93
13-Sep-15			0.51	10.22			Rp 7,829.24	Rp 7,829.24
14-Sep-15			0	10.22			Rp 7,829.24	Rp 7,829.24
15-Sep-15			0	10.22			Rp 7,829.24	Rp 7,829.24
16-Sep-15			0	10.22			Rp 7,829.24	Rp 7,829.24
17-Sep-15			0	10.22			Rp 7,829.24	Rp 7,829.24
18-Sep-15			0	10.22			Rp 7,829.24	Rp 7,829.24
19-Sep-15			0	10.22			Rp 7,829.24	Rp 7,829.24
20-Sep-15			0	10.22			Rp 7,829.24	Rp 7,829.24
21-Sep-15			0	10.22			Rp 7,829.24	Rp 7,829.24
22-Sep-15			0	10.22			Rp 7,829.24	Rp 7,829.24
23-Sep-15			0	10.22			Rp 7,829.24	Rp 7,829.24
24-Sep-15			0	10.22			Rp 7,829.24	Rp 7,829.24
25-Sep-15			0	10.22			Rp 7,829.24	Rp 7,829.24
26-Sep-15			0	10.22			Rp 7,829.24	Rp 7,829.24
27-Sep-15			0	10.22			Rp 7,829.24	Rp 7,829.24
28-Sep-15			0	10.22			Rp 7,829.24	Rp 7,829.24
29-Sep-15			0	10.22			Rp 7,829.24	Rp 7,829.24
30-Sep-15			0	10.22			Rp 7,829.24	Rp 7,829.24
1-Oct-15			0	10.22			Rp 7,829.24	Rp 7,829.24
2-Oct-15			0	10.22			Rp 7,829.24	Rp 7,829.24
3-Oct-15			0	10.22			Rp 7,829.24	Rp 7,829.24
4-Oct-15			0	10.22			Rp 7,829.24	Rp 7,829.24
5-Oct-15			0	10.22			Rp 7,829.24	Rp 7,829.24

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
6-Oct-15			0	10.22			Rp 7,829.24	Rp 7,829.24
7-Oct-15			0	10.22			Rp 7,829.24	Rp 7,829.24
8-Oct-15			1.43	8.79			Rp 6,733.76	Rp 6,733.76
9-Oct-15			0	8.79			Rp 6,733.76	Rp 6,733.76
10-Oct-15			0	8.79			Rp 6,733.76	Rp 6,733.76
11-Oct-15			0	8.79			Rp 6,733.76	Rp 6,733.76
12-Oct-15			1.38	7.41			Rp 5,676.58	Rp 5,676.58
13-Oct-15			0	7.41			Rp 5,676.58	Rp 5,676.58
14-Oct-15			0	7.41			Rp 5,676.58	Rp 5,676.58
15-Oct-15			0	7.41			Rp 5,676.58	Rp 5,676.58
16-Oct-15			0	7.41			Rp 5,676.58	Rp 5,676.58
17-Oct-15			0	7.41			Rp 5,676.58	Rp 5,676.58
18-Oct-15			0.64	6.77			Rp 5,186.29	Rp 5,186.29
19-Oct-15			0	6.77			Rp 5,186.29	Rp 5,186.29
20-Oct-15			0	6.77			Rp 5,186.29	Rp 5,186.29
21-Oct-15			0	6.77			Rp 5,186.29	Rp 5,186.29
22-Oct-15			0	6.77			Rp 5,186.29	Rp 5,186.29
23-Oct-15			0	6.77			Rp 5,186.29	Rp 5,186.29
24-Oct-15			0	6.77			Rp 5,186.29	Rp 5,186.29
25-Oct-15			0	6.77			Rp 5,186.29	Rp 5,186.29
26-Oct-15	11.63		1.63	5.14	Rp 131,774.28		Rp 3,937.60	Rp 135,711.88
27-Oct-15			0	5.14			Rp 3,937.60	Rp 3,937.60
28-Oct-15			0	5.14			Rp 3,937.60	Rp 3,937.60
29-Oct-15		11.63	0	16.77			Rp 12,846.99	Rp 12,846.99
30-Oct-15			0	16.77			Rp 12,846.99	Rp 12,846.99
31-Oct-15			0	16.77			Rp 12,846.99	Rp 12,846.99
1-Nov-15			9.42	7.35			Rp 5,630.61	Rp 5,630.61
2-Nov-15	11.63		5.07	2.28	Rp 131,774.28		Rp 1,746.64	Rp 133,520.92
3-Nov-15			0	2.28			Rp 1,746.64	Rp 1,746.64
4-Nov-15		11.63	0	13.91			Rp 10,656.03	Rp 10,656.03
5-Nov-15			0	13.91			Rp 10,656.03	Rp 10,656.03
6-Nov-15			0	13.91			Rp 10,656.03	Rp 10,656.03
7-Nov-15			0	13.91			Rp 10,656.03	Rp 10,656.03
8-Nov-15			0	13.91			Rp 10,656.03	Rp 10,656.03
9-Nov-15			0	13.91			Rp 10,656.03	Rp 10,656.03
10-Nov-15			0	13.91			Rp 10,656.03	Rp 10,656.03
11-Nov-15			0	13.91			Rp 10,656.03	Rp 10,656.03
12-Nov-15			0	13.91			Rp 10,656.03	Rp 10,656.03
13-Nov-15			0	13.91			Rp 10,656.03	Rp 10,656.03
14-Nov-15			0	13.91			Rp 10,656.03	Rp 10,656.03
15-Nov-15			0	13.91			Rp 10,656.03	Rp 10,656.03
16-Nov-15			0	13.91			Rp 10,656.03	Rp 10,656.03
17-Nov-15			0	13.91			Rp 10,656.03	Rp 10,656.03
18-Nov-15			1.74	12.17			Rp 9,323.07	Rp 9,323.07
19-Nov-15			0	12.17			Rp 9,323.07	Rp 9,323.07
20-Nov-15			0	12.17			Rp 9,323.07	Rp 9,323.07
21-Nov-15			0	12.17			Rp 9,323.07	Rp 9,323.07
22-Nov-15			0	12.17			Rp 9,323.07	Rp 9,323.07
23-Nov-15			0	12.17			Rp 9,323.07	Rp 9,323.07
24-Nov-15			0	12.17			Rp 9,323.07	Rp 9,323.07
25-Nov-15			0	12.17			Rp 9,323.07	Rp 9,323.07
26-Nov-15			0	12.17			Rp 9,323.07	Rp 9,323.07
27-Nov-15			0	12.17			Rp 9,323.07	Rp 9,323.07
28-Nov-15			0	12.17			Rp 9,323.07	Rp 9,323.07
29-Nov-15			0	12.17			Rp 9,323.07	Rp 9,323.07
30-Nov-15			0	12.17			Rp 9,323.07	Rp 9,323.07
1-Dec-15			0	12.17			Rp 9,323.07	Rp 9,323.07
2-Dec-15			0	12.17			Rp 9,323.07	Rp 9,323.07
3-Dec-15			0	12.17			Rp 9,323.07	Rp 9,323.07
4-Dec-15			0	12.17			Rp 9,323.07	Rp 9,323.07
5-Dec-15			0	12.17			Rp 9,323.07	Rp 9,323.07
6-Dec-15			0	12.17			Rp 9,323.07	Rp 9,323.07
7-Dec-15			0	12.17			Rp 9,323.07	Rp 9,323.07
8-Dec-15			0	12.17			Rp 9,323.07	Rp 9,323.07
9-Dec-15			0	12.17			Rp 9,323.07	Rp 9,323.07
10-Dec-15			0	12.17			Rp 9,323.07	Rp 9,323.07
11-Dec-15			0	12.17			Rp 9,323.07	Rp 9,323.07
12-Dec-15			0	12.17			Rp 9,323.07	Rp 9,323.07
13-Dec-15			3.67	8.5			Rp 6,511.59	Rp 6,511.59
14-Dec-15			0	8.5			Rp 6,511.59	Rp 6,511.59
15-Dec-15			0	8.5			Rp 6,511.59	Rp 6,511.59
16-Dec-15			0	8.5			Rp 6,511.59	Rp 6,511.59
17-Dec-15			0	8.5			Rp 6,511.59	Rp 6,511.59
18-Dec-15			0	8.5			Rp 6,511.59	Rp 6,511.59

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
19-Dec-15			0	8.5			Rp 6,511.59	Rp 6,511.59
20-Dec-15			0	8.5			Rp 6,511.59	Rp 6,511.59
21-Dec-15			0	8.5			Rp 6,511.59	Rp 6,511.59
22-Dec-15			0	8.5			Rp 6,511.59	Rp 6,511.59
23-Dec-15			0	8.5			Rp 6,511.59	Rp 6,511.59
24-Dec-15			0	8.5			Rp 6,511.59	Rp 6,511.59
25-Dec-15			1.56	6.94			Rp 5,316.53	Rp 5,316.53
26-Dec-15			0	6.94			Rp 5,316.53	Rp 5,316.53
27-Dec-15			0	6.94			Rp 5,316.53	Rp 5,316.53
28-Dec-15			0	6.94			Rp 5,316.53	Rp 5,316.53
29-Dec-15			0	6.94			Rp 5,316.53	Rp 5,316.53
30-Dec-15			0	6.94			Rp 5,316.53	Rp 5,316.53
31-Dec-15			0	6.94			Rp 5,316.53	Rp 5,316.53
							Rp	10,620,771.33

Replication 4

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
3-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
4-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
5-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
6-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
7-Jan-15			1.23	83.52			Rp 63,982.17	Rp 63,982.17
8-Jan-15			0	83.52			Rp 63,982.17	Rp 63,982.17
9-Jan-15			4.9	78.62			Rp 60,228.42	Rp 60,228.42
10-Jan-15			0	78.62			Rp 60,228.42	Rp 60,228.42
11-Jan-15			1.09	77.53			Rp 59,393.41	Rp 59,393.41
12-Jan-15			0	77.53			Rp 59,393.41	Rp 59,393.41
13-Jan-15			0	77.53			Rp 59,393.41	Rp 59,393.41
14-Jan-15			1.91	75.62			Rp 57,930.21	Rp 57,930.21
15-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
16-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
17-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
18-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
19-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
20-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
21-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
22-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
23-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
24-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
25-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
26-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
27-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
28-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
29-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
30-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
31-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
1-Feb-15			0	75.62			Rp 57,930.21	Rp 57,930.21
2-Feb-15			0	75.62			Rp 57,930.21	Rp 57,930.21
3-Feb-15			0	75.62			Rp 57,930.21	Rp 57,930.21
4-Feb-15			0	75.62			Rp 57,930.21	Rp 57,930.21
5-Feb-15			0	75.62			Rp 57,930.21	Rp 57,930.21
6-Feb-15			0	75.62			Rp 57,930.21	Rp 57,930.21
7-Feb-15			0	75.62			Rp 57,930.21	Rp 57,930.21
8-Feb-15			0	75.62			Rp 57,930.21	Rp 57,930.21
9-Feb-15			0	75.62			Rp 57,930.21	Rp 57,930.21
10-Feb-15			0	75.62			Rp 57,930.21	Rp 57,930.21
11-Feb-15			3.94	71.68			Rp 54,911.90	Rp 54,911.90
12-Feb-15			0	71.68			Rp 54,911.90	Rp 54,911.90
13-Feb-15			0	71.68			Rp 54,911.90	Rp 54,911.90
14-Feb-15			0	71.68			Rp 54,911.90	Rp 54,911.90
15-Feb-15			0	71.68			Rp 54,911.90	Rp 54,911.90
16-Feb-15			9.74	61.94			Rp 47,450.38	Rp 47,450.38
17-Feb-15			0	61.94			Rp 47,450.38	Rp 47,450.38
18-Feb-15			1.86	60.08			Rp 46,025.49	Rp 46,025.49
19-Feb-15			0	60.08			Rp 46,025.49	Rp 46,025.49
20-Feb-15			0	60.08			Rp 46,025.49	Rp 46,025.49
21-Feb-15			1.92	58.16			Rp 44,554.63	Rp 44,554.63

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
22-Feb-15			0	58.16			Rp 44,554.63	Rp 44,554.63
23-Feb-15			0	58.16			Rp 44,554.63	Rp 44,554.63
24-Feb-15			0	58.16			Rp 44,554.63	Rp 44,554.63
25-Feb-15			0.41	57.75			Rp 44,240.54	Rp 44,240.54
26-Feb-15			0	57.75			Rp 44,240.54	Rp 44,240.54
27-Feb-15			0	57.75			Rp 44,240.54	Rp 44,240.54
28-Feb-15			0	57.75			Rp 44,240.54	Rp 44,240.54
1-Mar-15			0	57.75			Rp 44,240.54	Rp 44,240.54
2-Mar-15			2.49	55.26			Rp 42,333.03	Rp 42,333.03
3-Mar-15			0	55.26			Rp 42,333.03	Rp 42,333.03
4-Mar-15			0	55.26			Rp 42,333.03	Rp 42,333.03
5-Mar-15			0	55.26			Rp 42,333.03	Rp 42,333.03
6-Mar-15			0	55.26			Rp 42,333.03	Rp 42,333.03
7-Mar-15			0	55.26			Rp 42,333.03	Rp 42,333.03
8-Mar-15			0.2	55.06			Rp 42,179.81	Rp 42,179.81
9-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
10-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
11-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
12-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
13-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
14-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
15-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
16-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
17-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
18-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
19-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
20-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
21-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
22-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
23-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
24-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
25-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
26-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
27-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
28-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
29-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
30-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
31-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
1-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
2-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
3-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
4-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
5-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
6-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
7-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
8-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
9-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
10-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
11-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
12-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
13-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
14-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
15-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
16-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
17-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
18-Apr-15			3.66	51.4			Rp 39,376.00	Rp 39,376.00
19-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
20-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
21-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
22-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
23-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
24-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
25-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
26-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
27-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
28-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
29-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
30-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
1-May-15			1.16	50.24			Rp 38,487.36	Rp 38,487.36
2-May-15			0	50.24			Rp 38,487.36	Rp 38,487.36
3-May-15			0	50.24			Rp 38,487.36	Rp 38,487.36
4-May-15			0	50.24			Rp 38,487.36	Rp 38,487.36
5-May-15			0	50.24			Rp 38,487.36	Rp 38,487.36
6-May-15			0	50.24			Rp 38,487.36	Rp 38,487.36

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
7-May-15			0	50.24			Rp 38,487.36	Rp 38,487.36
8-May-15			2.58	47.66			Rp 36,510.90	Rp 36,510.90
9-May-15			0	47.66			Rp 36,510.90	Rp 36,510.90
10-May-15			2.18	45.48			Rp 34,840.86	Rp 34,840.86
11-May-15			0	45.48			Rp 34,840.86	Rp 34,840.86
12-May-15			0	45.48			Rp 34,840.86	Rp 34,840.86
13-May-15			0.43	45.05			Rp 34,511.45	Rp 34,511.45
14-May-15			0	45.05			Rp 34,511.45	Rp 34,511.45
15-May-15			0	45.05			Rp 34,511.45	Rp 34,511.45
16-May-15			0	45.05			Rp 34,511.45	Rp 34,511.45
17-May-15			0	45.05			Rp 34,511.45	Rp 34,511.45
18-May-15			0	45.05			Rp 34,511.45	Rp 34,511.45
19-May-15			0	45.05			Rp 34,511.45	Rp 34,511.45
20-May-15			0	45.05			Rp 34,511.45	Rp 34,511.45
21-May-15			8.42	36.63			Rp 28,061.14	Rp 28,061.14
22-May-15			0	36.63			Rp 28,061.14	Rp 28,061.14
23-May-15			1.5	35.13			Rp 26,912.04	Rp 26,912.04
24-May-15			0	35.13			Rp 26,912.04	Rp 26,912.04
25-May-15			0	35.13			Rp 26,912.04	Rp 26,912.04
26-May-15			8.14	26.99			Rp 20,676.23	Rp 20,676.23
27-May-15			0	26.99			Rp 20,676.23	Rp 20,676.23
28-May-15			0	26.99			Rp 20,676.23	Rp 20,676.23
29-May-15			0	26.99			Rp 20,676.23	Rp 20,676.23
30-May-15			0	26.99			Rp 20,676.23	Rp 20,676.23
31-May-15			1	25.99			Rp 19,910.16	Rp 19,910.16
1-Jun-15			0	25.99			Rp 19,910.16	Rp 19,910.16
2-Jun-15			0	25.99			Rp 19,910.16	Rp 19,910.16
3-Jun-15			0	25.99			Rp 19,910.16	Rp 19,910.16
4-Jun-15			0	25.99			Rp 19,910.16	Rp 19,910.16
5-Jun-15			1.78	24.21			Rp 18,546.55	Rp 18,546.55
6-Jun-15			0	24.21			Rp 18,546.55	Rp 18,546.55
7-Jun-15			0	24.21			Rp 18,546.55	Rp 18,546.55
8-Jun-15			0	24.21			Rp 18,546.55	Rp 18,546.55
9-Jun-15			1.74	22.47			Rp 17,213.59	Rp 17,213.59
10-Jun-15			0	22.47			Rp 17,213.59	Rp 17,213.59
11-Jun-15			0	22.47			Rp 17,213.59	Rp 17,213.59
12-Jun-15			0	22.47			Rp 17,213.59	Rp 17,213.59
13-Jun-15			0	22.47			Rp 17,213.59	Rp 17,213.59
14-Jun-15	11.63		17.31	5.16	Rp 131,774.28		Rp 3,952.92	Rp 135,727.20
15-Jun-15			0	5.16			Rp 3,952.92	Rp 3,952.92
16-Jun-15		11.63	0	16.79			Rp 12,862.32	Rp 12,862.32
17-Jun-15			0	16.79			Rp 12,862.32	Rp 12,862.32
18-Jun-15			1.54	15.25			Rp 11,682.57	Rp 11,682.57
19-Jun-15			0	15.25			Rp 11,682.57	Rp 11,682.57
20-Jun-15			0	15.25			Rp 11,682.57	Rp 11,682.57
21-Jun-15			0	15.25			Rp 11,682.57	Rp 11,682.57
22-Jun-15			0	15.25			Rp 11,682.57	Rp 11,682.57
23-Jun-15			0	15.25			Rp 11,682.57	Rp 11,682.57
24-Jun-15			0	15.25			Rp 11,682.57	Rp 11,682.57
25-Jun-15			0	15.25			Rp 11,682.57	Rp 11,682.57
26-Jun-15			0	15.25			Rp 11,682.57	Rp 11,682.57
27-Jun-15			0	15.25			Rp 11,682.57	Rp 11,682.57
28-Jun-15			0	15.25			Rp 11,682.57	Rp 11,682.57
29-Jun-15			0	15.25			Rp 11,682.57	Rp 11,682.57
30-Jun-15			0	15.25			Rp 11,682.57	Rp 11,682.57
1-Jul-15			0	15.25			Rp 11,682.57	Rp 11,682.57
2-Jul-15			0	15.25			Rp 11,682.57	Rp 11,682.57
3-Jul-15			0	15.25			Rp 11,682.57	Rp 11,682.57
4-Jul-15			0	15.25			Rp 11,682.57	Rp 11,682.57
5-Jul-15			0	15.25			Rp 11,682.57	Rp 11,682.57
6-Jul-15			0	15.25			Rp 11,682.57	Rp 11,682.57
7-Jul-15			0	15.25			Rp 11,682.57	Rp 11,682.57
8-Jul-15			0	15.25			Rp 11,682.57	Rp 11,682.57
9-Jul-15			0	15.25			Rp 11,682.57	Rp 11,682.57
10-Jul-15			0	15.25			Rp 11,682.57	Rp 11,682.57
11-Jul-15			0	15.25			Rp 11,682.57	Rp 11,682.57
12-Jul-15			0	15.25			Rp 11,682.57	Rp 11,682.57
13-Jul-15			0	15.25			Rp 11,682.57	Rp 11,682.57
14-Jul-15			0	15.25			Rp 11,682.57	Rp 11,682.57
15-Jul-15			0	15.25			Rp 11,682.57	Rp 11,682.57
16-Jul-15			0	15.25			Rp 11,682.57	Rp 11,682.57
17-Jul-15			0	15.25			Rp 11,682.57	Rp 11,682.57
18-Jul-15			2.12	13.13			Rp 10,058.50	Rp 10,058.50
19-Jul-15			0	13.13			Rp 10,058.50	Rp 10,058.50

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
20-Jul-15			0	13.13			Rp 10,058.50	Rp 10,058.50
21-Jul-15			0	13.13			Rp 10,058.50	Rp 10,058.50
22-Jul-15			0	13.13			Rp 10,058.50	Rp 10,058.50
23-Jul-15	11.63		9.09	4.04	Rp 131,774.28		Rp 3,094.92	Rp 134,869.20
24-Jul-15			0	4.04			Rp 3,094.92	Rp 3,094.92
25-Jul-15			0	4.04			Rp 3,094.92	Rp 3,094.92
26-Jul-15			0.45	3.59			Rp 2,750.19	Rp 2,750.19
27-Jul-15			0	3.59			Rp 2,750.19	Rp 2,750.19
28-Jul-15			0	3.59			Rp 2,750.19	Rp 2,750.19
29-Jul-15		11.63	0	15.22			Rp 11,659.59	Rp 11,659.59
30-Jul-15			0	15.22			Rp 11,659.59	Rp 11,659.59
31-Jul-15			0	15.22			Rp 11,659.59	Rp 11,659.59
1-Aug-15			0	15.22			Rp 11,659.59	Rp 11,659.59
2-Aug-15			0	15.22			Rp 11,659.59	Rp 11,659.59
3-Aug-15			0	15.22			Rp 11,659.59	Rp 11,659.59
4-Aug-15			0	15.22			Rp 11,659.59	Rp 11,659.59
5-Aug-15			0	15.22			Rp 11,659.59	Rp 11,659.59
6-Aug-15			0	15.22			Rp 11,659.59	Rp 11,659.59
7-Aug-15			3.92	11.3			Rp 8,656.59	Rp 8,656.59
8-Aug-15			0	11.3			Rp 8,656.59	Rp 8,656.59
9-Aug-15			0	11.3			Rp 8,656.59	Rp 8,656.59
10-Aug-15			0	11.3			Rp 8,656.59	Rp 8,656.59
11-Aug-15			0	11.3			Rp 8,656.59	Rp 8,656.59
12-Aug-15			0	11.3			Rp 8,656.59	Rp 8,656.59
13-Aug-15			0	11.3			Rp 8,656.59	Rp 8,656.59
14-Aug-15			0	11.3			Rp 8,656.59	Rp 8,656.59
15-Aug-15			0	11.3			Rp 8,656.59	Rp 8,656.59
16-Aug-15			0	11.3			Rp 8,656.59	Rp 8,656.59
17-Aug-15			1.45	9.85			Rp 7,545.79	Rp 7,545.79
18-Aug-15			0	9.85			Rp 7,545.79	Rp 7,545.79
19-Aug-15			0	9.85			Rp 7,545.79	Rp 7,545.79
20-Aug-15	11.63		3.91	5.94	Rp 131,774.28		Rp 4,550.46	Rp 136,324.74
21-Aug-15			9.5	-3.56		Rp 1,556,301.60	Rp 4,550.46	Rp 1,560,852.06
22-Aug-15		11.63	0	17.57			Rp 13,459.85	Rp 13,459.85
23-Aug-15			0	17.57			Rp 13,459.85	Rp 13,459.85
24-Aug-15			8.87	8.7			Rp 6,664.81	Rp 6,664.81
25-Aug-15			0	8.7			Rp 6,664.81	Rp 6,664.81
26-Aug-15			0	8.7			Rp 6,664.81	Rp 6,664.81
27-Aug-15			0	8.7			Rp 6,664.81	Rp 6,664.81
28-Aug-15			0	8.7			Rp 6,664.81	Rp 6,664.81
29-Aug-15			0	8.7			Rp 6,664.81	Rp 6,664.81
30-Aug-15			0	8.7			Rp 6,664.81	Rp 6,664.81
31-Aug-15			0	8.7			Rp 6,664.81	Rp 6,664.81
1-Sep-15			0	8.7			Rp 6,664.81	Rp 6,664.81
2-Sep-15			0	8.7			Rp 6,664.81	Rp 6,664.81
3-Sep-15			0	8.7			Rp 6,664.81	Rp 6,664.81
4-Sep-15			0	8.7			Rp 6,664.81	Rp 6,664.81
5-Sep-15			0	8.7			Rp 6,664.81	Rp 6,664.81
6-Sep-15			0	8.7			Rp 6,664.81	Rp 6,664.81
7-Sep-15			1.04	7.66			Rp 5,868.10	Rp 5,868.10
8-Sep-15			0	7.66			Rp 5,868.10	Rp 5,868.10
9-Sep-15			0	7.66			Rp 5,868.10	Rp 5,868.10
10-Sep-15			0	7.66			Rp 5,868.10	Rp 5,868.10
11-Sep-15			0.71	6.95			Rp 5,324.19	Rp 5,324.19
12-Sep-15			0	6.95			Rp 5,324.19	Rp 5,324.19
13-Sep-15			0	6.95			Rp 5,324.19	Rp 5,324.19
14-Sep-15			0	6.95			Rp 5,324.19	Rp 5,324.19
15-Sep-15	11.63		0.71	6.24	Rp 131,774.28		Rp 4,780.28	Rp 136,554.56
16-Sep-15			0	6.24			Rp 4,780.28	Rp 4,780.28
17-Sep-15		11.63	0	17.87			Rp 13,689.67	Rp 13,689.67
18-Sep-15			0	17.87			Rp 13,689.67	Rp 13,689.67
19-Sep-15			0	17.87			Rp 13,689.67	Rp 13,689.67
20-Sep-15			0	17.87			Rp 13,689.67	Rp 13,689.67
21-Sep-15			0	17.87			Rp 13,689.67	Rp 13,689.67
22-Sep-15			0.92	16.95			Rp 12,984.89	Rp 12,984.89
23-Sep-15			3.17	13.78			Rp 10,556.44	Rp 10,556.44
24-Sep-15			0	13.78			Rp 10,556.44	Rp 10,556.44
25-Sep-15			0	13.78			Rp 10,556.44	Rp 10,556.44
26-Sep-15			0	13.78			Rp 10,556.44	Rp 10,556.44
27-Sep-15			0	13.78			Rp 10,556.44	Rp 10,556.44
28-Sep-15			0	13.78			Rp 10,556.44	Rp 10,556.44
29-Sep-15			0	13.78			Rp 10,556.44	Rp 10,556.44
30-Sep-15			0	13.78			Rp 10,556.44	Rp 10,556.44
1-Oct-15			3.63	10.15			Rp 7,775.61	Rp 7,775.61

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
2-Oct-15			0	10.15			Rp 7,775.61	Rp 7,775.61
3-Oct-15			0	10.15			Rp 7,775.61	Rp 7,775.61
4-Oct-15			2.37	7.78			Rp 5,960.02	Rp 5,960.02
5-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
6-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
7-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
8-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
9-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
10-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
11-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
12-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
13-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
14-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
15-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
16-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
17-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
18-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
19-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
20-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
21-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
22-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
23-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
24-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
25-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
26-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
27-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
28-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
29-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
30-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
31-Oct-15			0	7.78			Rp 5,960.02	Rp 5,960.02
1-Nov-15			0	7.78			Rp 5,960.02	Rp 5,960.02
2-Nov-15			0	7.78			Rp 5,960.02	Rp 5,960.02
3-Nov-15			0	7.78			Rp 5,960.02	Rp 5,960.02
4-Nov-15			0	7.78			Rp 5,960.02	Rp 5,960.02
5-Nov-15			0	7.78			Rp 5,960.02	Rp 5,960.02
6-Nov-15			0	7.78			Rp 5,960.02	Rp 5,960.02
7-Nov-15			0	7.78			Rp 5,960.02	Rp 5,960.02
8-Nov-15			0	7.78			Rp 5,960.02	Rp 5,960.02
9-Nov-15			0	7.78			Rp 5,960.02	Rp 5,960.02
10-Nov-15			0	7.78			Rp 5,960.02	Rp 5,960.02
11-Nov-15			0	7.78			Rp 5,960.02	Rp 5,960.02
12-Nov-15			0	7.78			Rp 5,960.02	Rp 5,960.02
13-Nov-15			0	7.78			Rp 5,960.02	Rp 5,960.02
14-Nov-15			0	7.78			Rp 5,960.02	Rp 5,960.02
15-Nov-15			1.01	6.77			Rp 5,186.29	Rp 5,186.29
16-Nov-15			0	6.77			Rp 5,186.29	Rp 5,186.29
17-Nov-15			16.38	-9.61		Rp 1,556,301.60	Rp 5,186.29	Rp 1,561,487.89
18-Nov-15			0	6.77			Rp 5,186.29	Rp 5,186.29
19-Nov-15			0	6.77			Rp 5,186.29	Rp 5,186.29
20-Nov-15			0	6.77			Rp 5,186.29	Rp 5,186.29
21-Nov-15			0	6.77			Rp 5,186.29	Rp 5,186.29
22-Nov-15			0	6.77			Rp 5,186.29	Rp 5,186.29
23-Nov-15			0	6.77			Rp 5,186.29	Rp 5,186.29
24-Nov-15			0	6.77			Rp 5,186.29	Rp 5,186.29
25-Nov-15			0	6.77			Rp 5,186.29	Rp 5,186.29
26-Nov-15	11.63		1.05	5.72	Rp 131,774.28		Rp 4,381.92	Rp 136,156.20
27-Nov-15		11.63	0.61	16.74			Rp 12,824.01	Rp 12,824.01
28-Nov-15			0	16.74			Rp 12,824.01	Rp 12,824.01
29-Nov-15			0	16.74			Rp 12,824.01	Rp 12,824.01
30-Nov-15			0	16.74			Rp 12,824.01	Rp 12,824.01
1-Dec-15			0	16.74			Rp 12,824.01	Rp 12,824.01
2-Dec-15			7.8	8.94			Rp 6,848.67	Rp 6,848.67
3-Dec-15			0	8.94			Rp 6,848.67	Rp 6,848.67
4-Dec-15			0	8.94			Rp 6,848.67	Rp 6,848.67
5-Dec-15			0	8.94			Rp 6,848.67	Rp 6,848.67
6-Dec-15			0	8.94			Rp 6,848.67	Rp 6,848.67
7-Dec-15	11.63		8.77	0.17	Rp 131,774.28		Rp 130.23	Rp 131,904.51
8-Dec-15		11.63	2.78	9.02			Rp 6,909.95	Rp 6,909.95
9-Dec-15			0	9.02			Rp 6,909.95	Rp 6,909.95
10-Dec-15			0	9.02			Rp 6,909.95	Rp 6,909.95
11-Dec-15			0	9.02			Rp 6,909.95	Rp 6,909.95
12-Dec-15			0	9.02			Rp 6,909.95	Rp 6,909.95
13-Dec-15			0	9.02			Rp 6,909.95	Rp 6,909.95
14-Dec-15			0	9.02			Rp 6,909.95	Rp 6,909.95

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
15-Dec-15			0	9.02			Rp 6,909.95	Rp 6,909.95
16-Dec-15			0	9.02			Rp 6,909.95	Rp 6,909.95
17-Dec-15			0	9.02			Rp 6,909.95	Rp 6,909.95
18-Dec-15			0.79	8.23			Rp 6,304.76	Rp 6,304.76
19-Dec-15			0	8.23			Rp 6,304.76	Rp 6,304.76
20-Dec-15			0	8.23			Rp 6,304.76	Rp 6,304.76
21-Dec-15			0	8.23			Rp 6,304.76	Rp 6,304.76
22-Dec-15			0	8.23			Rp 6,304.76	Rp 6,304.76
23-Dec-15			0	8.23			Rp 6,304.76	Rp 6,304.76
24-Dec-15			0	8.23			Rp 6,304.76	Rp 6,304.76
25-Dec-15			17.29	-9.06		Rp 1,556,301.60	Rp 6,304.76	Rp 1,562,606.36
26-Dec-15			0	8.23			Rp 6,304.76	Rp 6,304.76
27-Dec-15			0	8.23			Rp 6,304.76	Rp 6,304.76
28-Dec-15			0	8.23			Rp 6,304.76	Rp 6,304.76
29-Dec-15			0	8.23			Rp 6,304.76	Rp 6,304.76
30-Dec-15			0	8.23			Rp 6,304.76	Rp 6,304.76
31-Dec-15			0	8.23			Rp 6,304.76	Rp 6,304.76
								Rp 14,194,533.42

Replication 5

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
3-Jan-15			6.11	78.64			Rp 60,243.74	Rp 60,243.74
4-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
5-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
6-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
7-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
8-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
9-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
10-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
11-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
12-Jan-15			8.43	70.21			Rp 53,785.77	Rp 53,785.77
13-Jan-15			0	70.21			Rp 53,785.77	Rp 53,785.77
14-Jan-15			0	70.21			Rp 53,785.77	Rp 53,785.77
15-Jan-15			0	70.21			Rp 53,785.77	Rp 53,785.77
16-Jan-15			0	70.21			Rp 53,785.77	Rp 53,785.77
17-Jan-15			0	70.21			Rp 53,785.77	Rp 53,785.77
18-Jan-15			0	70.21			Rp 53,785.77	Rp 53,785.77
19-Jan-15			0.84	69.37			Rp 53,142.28	Rp 53,142.28
20-Jan-15			0	69.37			Rp 53,142.28	Rp 53,142.28
21-Jan-15			2.63	66.74			Rp 51,127.51	Rp 51,127.51
22-Jan-15			0	66.74			Rp 51,127.51	Rp 51,127.51
23-Jan-15			0	66.74			Rp 51,127.51	Rp 51,127.51
24-Jan-15			0	66.74			Rp 51,127.51	Rp 51,127.51
25-Jan-15			0	66.74			Rp 51,127.51	Rp 51,127.51
26-Jan-15			0	66.74			Rp 51,127.51	Rp 51,127.51
27-Jan-15			0	66.74			Rp 51,127.51	Rp 51,127.51
28-Jan-15			18.74	48			Rp 36,771.36	Rp 36,771.36
29-Jan-15			0	48			Rp 36,771.36	Rp 36,771.36
30-Jan-15			0.27	47.73			Rp 36,564.52	Rp 36,564.52
31-Jan-15			0	47.73			Rp 36,564.52	Rp 36,564.52
1-Feb-15			1.73	46			Rp 35,239.22	Rp 35,239.22
2-Feb-15			0	46			Rp 35,239.22	Rp 35,239.22
3-Feb-15			0	46			Rp 35,239.22	Rp 35,239.22
4-Feb-15			0	46			Rp 35,239.22	Rp 35,239.22
5-Feb-15			0	46			Rp 35,239.22	Rp 35,239.22
6-Feb-15			0.62	45.38			Rp 34,764.26	Rp 34,764.26
7-Feb-15			0	45.38			Rp 34,764.26	Rp 34,764.26
8-Feb-15			1.97	43.41			Rp 33,255.10	Rp 33,255.10
9-Feb-15			0	43.41			Rp 33,255.10	Rp 33,255.10
10-Feb-15			0	43.41			Rp 33,255.10	Rp 33,255.10
11-Feb-15			3.43	39.98			Rp 30,627.48	Rp 30,627.48
12-Feb-15			0	39.98			Rp 30,627.48	Rp 30,627.48
13-Feb-15			0	39.98			Rp 30,627.48	Rp 30,627.48
14-Feb-15			1.87	38.11			Rp 29,194.93	Rp 29,194.93
15-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
16-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
17-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
18-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
19-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
20-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
21-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
22-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
23-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
24-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
25-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
26-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
27-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
28-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
1-Mar-15			0	38.11			Rp 29,194.93	Rp 29,194.93
2-Mar-15			0.04	38.07			Rp 29,164.28	Rp 29,164.28
3-Mar-15			0	38.07			Rp 29,164.28	Rp 29,164.28
4-Mar-15			0	38.07			Rp 29,164.28	Rp 29,164.28
5-Mar-15			0	38.07			Rp 29,164.28	Rp 29,164.28
6-Mar-15			0	38.07			Rp 29,164.28	Rp 29,164.28
7-Mar-15			0	38.07			Rp 29,164.28	Rp 29,164.28
8-Mar-15			0	38.07			Rp 29,164.28	Rp 29,164.28
9-Mar-15			0	38.07			Rp 29,164.28	Rp 29,164.28
10-Mar-15			0	38.07			Rp 29,164.28	Rp 29,164.28
11-Mar-15			0	38.07			Rp 29,164.28	Rp 29,164.28
12-Mar-15			0	38.07			Rp 29,164.28	Rp 29,164.28
13-Mar-15			0	38.07			Rp 29,164.28	Rp 29,164.28
14-Mar-15			3.45	34.62			Rp 26,521.34	Rp 26,521.34
15-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
16-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
17-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
18-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
19-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
20-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
21-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
22-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
23-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
24-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
25-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
26-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
27-Mar-15			4.43	30.19			Rp 23,127.65	Rp 23,127.65
28-Mar-15			0	30.19			Rp 23,127.65	Rp 23,127.65
29-Mar-15			0	30.19			Rp 23,127.65	Rp 23,127.65
30-Mar-15			0	30.19			Rp 23,127.65	Rp 23,127.65
31-Mar-15			0	30.19			Rp 23,127.65	Rp 23,127.65
1-Apr-15			0	30.19			Rp 23,127.65	Rp 23,127.65
2-Apr-15			1.38	28.81			Rp 22,070.48	Rp 22,070.48
3-Apr-15			0	28.81			Rp 22,070.48	Rp 22,070.48
4-Apr-15			0	28.81			Rp 22,070.48	Rp 22,070.48
5-Apr-15			0	28.81			Rp 22,070.48	Rp 22,070.48
6-Apr-15			8.33	20.48			Rp 15,689.11	Rp 15,689.11
7-Apr-15			0	20.48			Rp 15,689.11	Rp 15,689.11
8-Apr-15			0	20.48			Rp 15,689.11	Rp 15,689.11
9-Apr-15			0	20.48			Rp 15,689.11	Rp 15,689.11
10-Apr-15			0	20.48			Rp 15,689.11	Rp 15,689.11
11-Apr-15			2.66	17.82			Rp 13,651.37	Rp 13,651.37
12-Apr-15			0	17.82			Rp 13,651.37	Rp 13,651.37
13-Apr-15			0	17.82			Rp 13,651.37	Rp 13,651.37
14-Apr-15			0	17.82			Rp 13,651.37	Rp 13,651.37
15-Apr-15			0	17.82			Rp 13,651.37	Rp 13,651.37
16-Apr-15			0	17.82			Rp 13,651.37	Rp 13,651.37
17-Apr-15			3.66	14.16			Rp 10,847.55	Rp 10,847.55
18-Apr-15			0	14.16			Rp 10,847.55	Rp 10,847.55
19-Apr-15			1.4	12.76			Rp 9,775.05	Rp 9,775.05
20-Apr-15			0	12.76			Rp 9,775.05	Rp 9,775.05
21-Apr-15			0	12.76			Rp 9,775.05	Rp 9,775.05
22-Apr-15			0	12.76			Rp 9,775.05	Rp 9,775.05
23-Apr-15			0	12.76			Rp 9,775.05	Rp 9,775.05
24-Apr-15			0	12.76			Rp 9,775.05	Rp 9,775.05
25-Apr-15			0	12.76			Rp 9,775.05	Rp 9,775.05
26-Apr-15			0	12.76			Rp 9,775.05	Rp 9,775.05
27-Apr-15			0	12.76			Rp 9,775.05	Rp 9,775.05
28-Apr-15			0	12.76			Rp 9,775.05	Rp 9,775.05
29-Apr-15			0	12.76			Rp 9,775.05	Rp 9,775.05
30-Apr-15			1.48	11.28			Rp 8,641.27	Rp 8,641.27
1-May-15			0	11.28			Rp 8,641.27	Rp 8,641.27
2-May-15			0	11.28			Rp 8,641.27	Rp 8,641.27

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
3-May-15			0	11.28			Rp 8,641.27	Rp 8,641.27
4-May-15			0	11.28			Rp 8,641.27	Rp 8,641.27
5-May-15			0	11.28			Rp 8,641.27	Rp 8,641.27
6-May-15			0	11.28			Rp 8,641.27	Rp 8,641.27
7-May-15			1.11	10.17			Rp 7,790.93	Rp 7,790.93
8-May-15			0	10.17			Rp 7,790.93	Rp 7,790.93
9-May-15			0	10.17			Rp 7,790.93	Rp 7,790.93
10-May-15			0	10.17			Rp 7,790.93	Rp 7,790.93
11-May-15			0	10.17			Rp 7,790.93	Rp 7,790.93
12-May-15			0	10.17			Rp 7,790.93	Rp 7,790.93
13-May-15			0	10.17			Rp 7,790.93	Rp 7,790.93
14-May-15			0	10.17			Rp 7,790.93	Rp 7,790.93
15-May-15			0	10.17			Rp 7,790.93	Rp 7,790.93
16-May-15			1.92	8.25			Rp 6,320.08	Rp 6,320.08
17-May-15			0	8.25			Rp 6,320.08	Rp 6,320.08
18-May-15			0	8.25			Rp 6,320.08	Rp 6,320.08
19-May-15			0	8.25			Rp 6,320.08	Rp 6,320.08
20-May-15			0	8.25			Rp 6,320.08	Rp 6,320.08
21-May-15			0	8.25			Rp 6,320.08	Rp 6,320.08
22-May-15			0	8.25			Rp 6,320.08	Rp 6,320.08
23-May-15			0	8.25			Rp 6,320.08	Rp 6,320.08
24-May-15			0	8.25			Rp 6,320.08	Rp 6,320.08
25-May-15			0	8.25			Rp 6,320.08	Rp 6,320.08
26-May-15	11.63		1.89	6.36	Rp 131,774.28		Rp 4,872.21	Rp 136,646.49
27-May-15			2.07	4.29			Rp 3,286.44	Rp 3,286.44
28-May-15		11.63	0	15.92			Rp 12,195.83	Rp 12,195.83
29-May-15			0	15.92			Rp 12,195.83	Rp 12,195.83
30-May-15			0	15.92			Rp 12,195.83	Rp 12,195.83
31-May-15			0	15.92			Rp 12,195.83	Rp 12,195.83
1-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
2-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
3-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
4-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
5-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
6-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
7-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
8-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
9-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
10-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
11-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
12-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
13-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
14-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
15-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
16-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
17-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
18-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
19-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
20-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
21-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
22-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
23-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
24-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
25-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
26-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
27-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
28-Jun-15			0	15.92			Rp 12,195.83	Rp 12,195.83
29-Jun-15			4.15	11.77			Rp 9,016.64	Rp 9,016.64
30-Jun-15			0	11.77			Rp 9,016.64	Rp 9,016.64
1-Jul-15			0	11.77			Rp 9,016.64	Rp 9,016.64
2-Jul-15			0	11.77			Rp 9,016.64	Rp 9,016.64
3-Jul-15			0	11.77			Rp 9,016.64	Rp 9,016.64
4-Jul-15			0	11.77			Rp 9,016.64	Rp 9,016.64
5-Jul-15			0	11.77			Rp 9,016.64	Rp 9,016.64
6-Jul-15			0	11.77			Rp 9,016.64	Rp 9,016.64
7-Jul-15			0	11.77			Rp 9,016.64	Rp 9,016.64
8-Jul-15			0	11.77			Rp 9,016.64	Rp 9,016.64
9-Jul-15			0	11.77			Rp 9,016.64	Rp 9,016.64
10-Jul-15			0	11.77			Rp 9,016.64	Rp 9,016.64
11-Jul-15			0	11.77			Rp 9,016.64	Rp 9,016.64
12-Jul-15			0	11.77			Rp 9,016.64	Rp 9,016.64
13-Jul-15			0	11.77			Rp 9,016.64	Rp 9,016.64
14-Jul-15			0	11.77			Rp 9,016.64	Rp 9,016.64
15-Jul-15			0	11.77			Rp 9,016.64	Rp 9,016.64

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
16-Jul-15			0	11.77			Rp 9,016.64	Rp 9,016.64
17-Jul-15			0	11.77			Rp 9,016.64	Rp 9,016.64
18-Jul-15			3.3	8.47			Rp 6,488.61	Rp 6,488.61
19-Jul-15			0	8.47			Rp 6,488.61	Rp 6,488.61
20-Jul-15			0	8.47			Rp 6,488.61	Rp 6,488.61
21-Jul-15			0	8.47			Rp 6,488.61	Rp 6,488.61
22-Jul-15			0.46	8.01			Rp 6,136.22	Rp 6,136.22
23-Jul-15			0	8.01			Rp 6,136.22	Rp 6,136.22
24-Jul-15	11.63		3.58	4.43	Rp 131,774.28		Rp 3,393.69	Rp 135,167.97
25-Jul-15			0	4.43			Rp 3,393.69	Rp 3,393.69
26-Jul-15			0	4.43			Rp 3,393.69	Rp 3,393.69
27-Jul-15		11.63	0	16.06			Rp 12,303.08	Rp 12,303.08
28-Jul-15			0	16.06			Rp 12,303.08	Rp 12,303.08
29-Jul-15			0	16.06			Rp 12,303.08	Rp 12,303.08
30-Jul-15			0	16.06			Rp 12,303.08	Rp 12,303.08
31-Jul-15			0	16.06			Rp 12,303.08	Rp 12,303.08
1-Aug-15			0	16.06			Rp 12,303.08	Rp 12,303.08
2-Aug-15			0	16.06			Rp 12,303.08	Rp 12,303.08
3-Aug-15			0	16.06			Rp 12,303.08	Rp 12,303.08
4-Aug-15			6.63	9.43			Rp 7,224.04	Rp 7,224.04
5-Aug-15			0	9.43			Rp 7,224.04	Rp 7,224.04
6-Aug-15			0	9.43			Rp 7,224.04	Rp 7,224.04
7-Aug-15			0	9.43			Rp 7,224.04	Rp 7,224.04
8-Aug-15			0	9.43			Rp 7,224.04	Rp 7,224.04
9-Aug-15			0.64	8.79			Rp 6,733.76	Rp 6,733.76
10-Aug-15			0	8.79			Rp 6,733.76	Rp 6,733.76
11-Aug-15			0	8.79			Rp 6,733.76	Rp 6,733.76
12-Aug-15	11.63		3.96	4.83	Rp 131,774.28		Rp 3,700.12	Rp 135,474.40
13-Aug-15			0	4.83			Rp 3,700.12	Rp 3,700.12
14-Aug-15			0	4.83			Rp 3,700.12	Rp 3,700.12
15-Aug-15		11.63	0.54	15.92			Rp 12,195.83	Rp 12,195.83
16-Aug-15			0.68	15.24			Rp 11,674.91	Rp 11,674.91
17-Aug-15			0	15.24			Rp 11,674.91	Rp 11,674.91
18-Aug-15			0	15.24			Rp 11,674.91	Rp 11,674.91
19-Aug-15			0	15.24			Rp 11,674.91	Rp 11,674.91
20-Aug-15	11.63		9.41	5.83	Rp 131,774.28		Rp 4,466.19	Rp 136,240.47
21-Aug-15			0	5.83			Rp 4,466.19	Rp 4,466.19
22-Aug-15		11.63	0	17.46			Rp 13,375.58	Rp 13,375.58
23-Aug-15			0	17.46			Rp 13,375.58	Rp 13,375.58
24-Aug-15			0	17.46			Rp 13,375.58	Rp 13,375.58
25-Aug-15			0	17.46			Rp 13,375.58	Rp 13,375.58
26-Aug-15			0	17.46			Rp 13,375.58	Rp 13,375.58
27-Aug-15			0	17.46			Rp 13,375.58	Rp 13,375.58
28-Aug-15			0	17.46			Rp 13,375.58	Rp 13,375.58
29-Aug-15			0.21	17.25			Rp 13,214.71	Rp 13,214.71
30-Aug-15			0	17.25			Rp 13,214.71	Rp 13,214.71
31-Aug-15			0	17.25			Rp 13,214.71	Rp 13,214.71
1-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
2-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
3-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
4-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
5-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
6-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
7-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
8-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
9-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
10-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
11-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
12-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
13-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
14-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
15-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
16-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
17-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
18-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
19-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
20-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
21-Sep-15			0.37	16.88			Rp 12,931.26	Rp 12,931.26
22-Sep-15			0	16.88			Rp 12,931.26	Rp 12,931.26
23-Sep-15			0	16.88			Rp 12,931.26	Rp 12,931.26
24-Sep-15			7.58	9.3			Rp 7,124.45	Rp 7,124.45
25-Sep-15			0	9.3			Rp 7,124.45	Rp 7,124.45
26-Sep-15			0	9.3			Rp 7,124.45	Rp 7,124.45
27-Sep-15			0	9.3			Rp 7,124.45	Rp 7,124.45

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
28-Sep-15			0	9.3			Rp 7,124.45	Rp 7,124.45
29-Sep-15			0	9.3			Rp 7,124.45	Rp 7,124.45
30-Sep-15			0	9.3			Rp 7,124.45	Rp 7,124.45
1-Oct-15			0	9.3			Rp 7,124.45	Rp 7,124.45
2-Oct-15			1.13	8.17			Rp 6,258.79	Rp 6,258.79
3-Oct-15			0	8.17			Rp 6,258.79	Rp 6,258.79
4-Oct-15			0	8.17			Rp 6,258.79	Rp 6,258.79
5-Oct-15			0	8.17			Rp 6,258.79	Rp 6,258.79
6-Oct-15			0	8.17			Rp 6,258.79	Rp 6,258.79
7-Oct-15			0	8.17			Rp 6,258.79	Rp 6,258.79
8-Oct-15			0	8.17			Rp 6,258.79	Rp 6,258.79
9-Oct-15			0	8.17			Rp 6,258.79	Rp 6,258.79
10-Oct-15			0	8.17			Rp 6,258.79	Rp 6,258.79
11-Oct-15			0	8.17			Rp 6,258.79	Rp 6,258.79
12-Oct-15			0	8.17			Rp 6,258.79	Rp 6,258.79
13-Oct-15			0	8.17			Rp 6,258.79	Rp 6,258.79
14-Oct-15	11.63		3.27	4.9	Rp 131,774.28		Rp 3,753.74	Rp 135,528.02
15-Oct-15			0	4.9			Rp 3,753.74	Rp 3,753.74
16-Oct-15		11.63	0	16.53			Rp 12,663.14	Rp 12,663.14
17-Oct-15			0	16.53			Rp 12,663.14	Rp 12,663.14
18-Oct-15			9.93	6.6			Rp 5,056.06	Rp 5,056.06
19-Oct-15			0	6.6			Rp 5,056.06	Rp 5,056.06
20-Oct-15			0	6.6			Rp 5,056.06	Rp 5,056.06
21-Oct-15			0	6.6			Rp 5,056.06	Rp 5,056.06
22-Oct-15			0	6.6			Rp 5,056.06	Rp 5,056.06
23-Oct-15			0	6.6			Rp 5,056.06	Rp 5,056.06
24-Oct-15	11.63		0.39	6.21	Rp 131,774.28		Rp 4,757.29	Rp 136,531.57
25-Oct-15			0	6.21			Rp 4,757.29	Rp 4,757.29
26-Oct-15		11.63	0	17.84			Rp 13,666.69	Rp 13,666.69
27-Oct-15			0	17.84			Rp 13,666.69	Rp 13,666.69
28-Oct-15			0	17.84			Rp 13,666.69	Rp 13,666.69
29-Oct-15			0	17.84			Rp 13,666.69	Rp 13,666.69
30-Oct-15			0	17.84			Rp 13,666.69	Rp 13,666.69
31-Oct-15			0	17.84			Rp 13,666.69	Rp 13,666.69
1-Nov-15			0	17.84			Rp 13,666.69	Rp 13,666.69
2-Nov-15			0	17.84			Rp 13,666.69	Rp 13,666.69
3-Nov-15			0	17.84			Rp 13,666.69	Rp 13,666.69
4-Nov-15			0	17.84			Rp 13,666.69	Rp 13,666.69
5-Nov-15			0	17.84			Rp 13,666.69	Rp 13,666.69
6-Nov-15			0	17.84			Rp 13,666.69	Rp 13,666.69
7-Nov-15			0	17.84			Rp 13,666.69	Rp 13,666.69
8-Nov-15			0	17.84			Rp 13,666.69	Rp 13,666.69
9-Nov-15			0.44	17.4			Rp 13,329.62	Rp 13,329.62
10-Nov-15			0	17.4			Rp 13,329.62	Rp 13,329.62
11-Nov-15			0	17.4			Rp 13,329.62	Rp 13,329.62
12-Nov-15			0	17.4			Rp 13,329.62	Rp 13,329.62
13-Nov-15			0	17.4			Rp 13,329.62	Rp 13,329.62
14-Nov-15			0	17.4			Rp 13,329.62	Rp 13,329.62
15-Nov-15			0	17.4			Rp 13,329.62	Rp 13,329.62
16-Nov-15			0	17.4			Rp 13,329.62	Rp 13,329.62
17-Nov-15			0	17.4			Rp 13,329.62	Rp 13,329.62
18-Nov-15			0	17.4			Rp 13,329.62	Rp 13,329.62
19-Nov-15			0	17.4			Rp 13,329.62	Rp 13,329.62
20-Nov-15			0	17.4			Rp 13,329.62	Rp 13,329.62
21-Nov-15			0.94	16.46			Rp 12,609.51	Rp 12,609.51
22-Nov-15			0	16.46			Rp 12,609.51	Rp 12,609.51
23-Nov-15			0	16.46			Rp 12,609.51	Rp 12,609.51
24-Nov-15			0	16.46			Rp 12,609.51	Rp 12,609.51
25-Nov-15			0	16.46			Rp 12,609.51	Rp 12,609.51
26-Nov-15			0	16.46			Rp 12,609.51	Rp 12,609.51
27-Nov-15			0	16.46			Rp 12,609.51	Rp 12,609.51
28-Nov-15			0	16.46			Rp 12,609.51	Rp 12,609.51
29-Nov-15			0	16.46			Rp 12,609.51	Rp 12,609.51
30-Nov-15			0	16.46			Rp 12,609.51	Rp 12,609.51
1-Dec-15			0	16.46			Rp 12,609.51	Rp 12,609.51
2-Dec-15			0	16.46			Rp 12,609.51	Rp 12,609.51
3-Dec-15			0	16.46			Rp 12,609.51	Rp 12,609.51
4-Dec-15			0	16.46			Rp 12,609.51	Rp 12,609.51
5-Dec-15			0	16.46			Rp 12,609.51	Rp 12,609.51
6-Dec-15			0	16.46			Rp 12,609.51	Rp 12,609.51
7-Dec-15			0	16.46			Rp 12,609.51	Rp 12,609.51
8-Dec-15			5.03	11.43			Rp 8,756.18	Rp 8,756.18
9-Dec-15			0	11.43			Rp 8,756.18	Rp 8,756.18
10-Dec-15			0	11.43			Rp 8,756.18	Rp 8,756.18

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
11-Dec-15			0	11.43			Rp 8,756.18	Rp 8,756.18
12-Dec-15			0	11.43			Rp 8,756.18	Rp 8,756.18
13-Dec-15			0	11.43			Rp 8,756.18	Rp 8,756.18
14-Dec-15			0	11.43			Rp 8,756.18	Rp 8,756.18
15-Dec-15			0	11.43			Rp 8,756.18	Rp 8,756.18
16-Dec-15			0	11.43			Rp 8,756.18	Rp 8,756.18
17-Dec-15			0	11.43			Rp 8,756.18	Rp 8,756.18
18-Dec-15			1.09	10.34			Rp 7,921.16	Rp 7,921.16
19-Dec-15			0	10.34			Rp 7,921.16	Rp 7,921.16
20-Dec-15			0	10.34			Rp 7,921.16	Rp 7,921.16
21-Dec-15			0	10.34			Rp 7,921.16	Rp 7,921.16
22-Dec-15			0	10.34			Rp 7,921.16	Rp 7,921.16
23-Dec-15			0	10.34			Rp 7,921.16	Rp 7,921.16
24-Dec-15			0	10.34			Rp 7,921.16	Rp 7,921.16
25-Dec-15			0.02	10.32			Rp 7,905.84	Rp 7,905.84
26-Dec-15			0.64	9.68			Rp 7,415.56	Rp 7,415.56
27-Dec-15			0	9.68			Rp 7,415.56	Rp 7,415.56
28-Dec-15			2.58	7.1			Rp 5,439.10	Rp 5,439.10
29-Dec-15			0	7.1			Rp 5,439.10	Rp 5,439.10
30-Dec-15			0	7.1			Rp 5,439.10	Rp 5,439.10
31-Dec-15			0	7.1			Rp 5,439.10	Rp 5,439.10
							Rp	7,070,757.31

Replication 6

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
3-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
4-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
5-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
6-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
7-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
8-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
9-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
10-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
11-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
12-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
13-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
14-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
15-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
16-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
17-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
18-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
19-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
20-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
21-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
22-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
23-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
24-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
25-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
26-Jan-15			2.6	82.15			Rp 62,932.65	Rp 62,932.65
27-Jan-15			0	82.15			Rp 62,932.65	Rp 62,932.65
28-Jan-15			0	82.15			Rp 62,932.65	Rp 62,932.65
29-Jan-15			0	82.15			Rp 62,932.65	Rp 62,932.65
30-Jan-15			10.95	71.2			Rp 54,544.18	Rp 54,544.18
31-Jan-15			0	71.2			Rp 54,544.18	Rp 54,544.18
1-Feb-15			0	71.2			Rp 54,544.18	Rp 54,544.18
2-Feb-15			0	71.2			Rp 54,544.18	Rp 54,544.18
3-Feb-15			0	71.2			Rp 54,544.18	Rp 54,544.18
4-Feb-15			0	71.2			Rp 54,544.18	Rp 54,544.18
5-Feb-15			0	71.2			Rp 54,544.18	Rp 54,544.18
6-Feb-15			0	71.2			Rp 54,544.18	Rp 54,544.18
7-Feb-15			0	71.2			Rp 54,544.18	Rp 54,544.18
8-Feb-15			0	71.2			Rp 54,544.18	Rp 54,544.18
9-Feb-15			0.03	71.17			Rp 54,521.20	Rp 54,521.20
10-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
11-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
12-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
13-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
14-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
15-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
16-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
17-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
18-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
19-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
20-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
21-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
22-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
23-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
24-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
25-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
26-Feb-15			1.27	69.9			Rp 53,548.29	Rp 53,548.29
27-Feb-15			0	69.9			Rp 53,548.29	Rp 53,548.29
28-Feb-15			0	69.9			Rp 53,548.29	Rp 53,548.29
1-Mar-15			0	69.9			Rp 53,548.29	Rp 53,548.29
2-Mar-15			0	69.9			Rp 53,548.29	Rp 53,548.29
3-Mar-15			0	69.9			Rp 53,548.29	Rp 53,548.29
4-Mar-15			8.42	61.48			Rp 47,097.98	Rp 47,097.98
5-Mar-15			0	61.48			Rp 47,097.98	Rp 47,097.98
6-Mar-15			0	61.48			Rp 47,097.98	Rp 47,097.98
7-Mar-15			7.92	53.56			Rp 41,030.71	Rp 41,030.71
8-Mar-15			0	53.56			Rp 41,030.71	Rp 41,030.71
9-Mar-15			0	53.56			Rp 41,030.71	Rp 41,030.71
10-Mar-15			0	53.56			Rp 41,030.71	Rp 41,030.71
11-Mar-15			0.36	53.2			Rp 40,754.92	Rp 40,754.92
12-Mar-15			0	53.2			Rp 40,754.92	Rp 40,754.92
13-Mar-15			0	53.2			Rp 40,754.92	Rp 40,754.92
14-Mar-15			0	53.2			Rp 40,754.92	Rp 40,754.92
15-Mar-15			0	53.2			Rp 40,754.92	Rp 40,754.92
16-Mar-15			0	53.2			Rp 40,754.92	Rp 40,754.92
17-Mar-15			0	53.2			Rp 40,754.92	Rp 40,754.92
18-Mar-15			0	53.2			Rp 40,754.92	Rp 40,754.92
19-Mar-15			0	53.2			Rp 40,754.92	Rp 40,754.92
20-Mar-15			0	53.2			Rp 40,754.92	Rp 40,754.92
21-Mar-15			2.67	50.53			Rp 38,709.52	Rp 38,709.52
22-Mar-15			0	50.53			Rp 38,709.52	Rp 38,709.52
23-Mar-15			0	50.53			Rp 38,709.52	Rp 38,709.52
24-Mar-15			0	50.53			Rp 38,709.52	Rp 38,709.52
25-Mar-15			0	50.53			Rp 38,709.52	Rp 38,709.52
26-Mar-15			0	50.53			Rp 38,709.52	Rp 38,709.52
27-Mar-15			0	50.53			Rp 38,709.52	Rp 38,709.52
28-Mar-15			0	50.53			Rp 38,709.52	Rp 38,709.52
29-Mar-15			0	50.53			Rp 38,709.52	Rp 38,709.52
30-Mar-15			0	50.53			Rp 38,709.52	Rp 38,709.52
31-Mar-15			0	50.53			Rp 38,709.52	Rp 38,709.52
1-Apr-15			0	50.53			Rp 38,709.52	Rp 38,709.52
2-Apr-15			0	50.53			Rp 38,709.52	Rp 38,709.52
3-Apr-15			0	50.53			Rp 38,709.52	Rp 38,709.52
4-Apr-15			0	50.53			Rp 38,709.52	Rp 38,709.52
5-Apr-15			0	50.53			Rp 38,709.52	Rp 38,709.52
6-Apr-15			0	50.53			Rp 38,709.52	Rp 38,709.52
7-Apr-15			0	50.53			Rp 38,709.52	Rp 38,709.52
8-Apr-15			0	50.53			Rp 38,709.52	Rp 38,709.52
9-Apr-15			0	50.53			Rp 38,709.52	Rp 38,709.52
10-Apr-15			0	50.53			Rp 38,709.52	Rp 38,709.52
11-Apr-15			1.09	49.44			Rp 37,874.50	Rp 37,874.50
12-Apr-15			0	49.44			Rp 37,874.50	Rp 37,874.50
13-Apr-15			0.13	49.31			Rp 37,774.91	Rp 37,774.91
14-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
15-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
16-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
17-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
18-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
19-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
20-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
21-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
22-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
23-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
24-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
25-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
26-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
27-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
28-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
29-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
30-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
1-May-15			1.07	48.24			Rp 36,955.22	Rp 36,955.22
2-May-15			0	48.24			Rp 36,955.22	Rp 36,955.22
3-May-15			0	48.24			Rp 36,955.22	Rp 36,955.22
4-May-15			1.77	46.47			Rp 35,599.27	Rp 35,599.27
5-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
6-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
7-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
8-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
9-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
10-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
11-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
12-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
13-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
14-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
15-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
16-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
17-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
18-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
19-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
20-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
21-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
22-May-15			1.6	44.87			Rp 34,373.56	Rp 34,373.56
23-May-15			0	44.87			Rp 34,373.56	Rp 34,373.56
24-May-15			0	44.87			Rp 34,373.56	Rp 34,373.56
25-May-15			0	44.87			Rp 34,373.56	Rp 34,373.56
26-May-15			0	44.87			Rp 34,373.56	Rp 34,373.56
27-May-15			3.34	41.53			Rp 31,814.89	Rp 31,814.89
28-May-15			0	41.53			Rp 31,814.89	Rp 31,814.89
29-May-15			0.97	40.56			Rp 31,071.80	Rp 31,071.80
30-May-15			0	40.56			Rp 31,071.80	Rp 31,071.80
31-May-15			1.77	38.79			Rp 29,715.86	Rp 29,715.86
1-Jun-15			0	38.79			Rp 29,715.86	Rp 29,715.86
2-Jun-15			0	38.79			Rp 29,715.86	Rp 29,715.86
3-Jun-15			0	38.79			Rp 29,715.86	Rp 29,715.86
4-Jun-15			0	38.79			Rp 29,715.86	Rp 29,715.86
5-Jun-15			0	38.79			Rp 29,715.86	Rp 29,715.86
6-Jun-15			0	38.79			Rp 29,715.86	Rp 29,715.86
7-Jun-15			0	38.79			Rp 29,715.86	Rp 29,715.86
8-Jun-15			0	38.79			Rp 29,715.86	Rp 29,715.86
9-Jun-15			0	38.79			Rp 29,715.86	Rp 29,715.86
10-Jun-15			0.9	37.89			Rp 29,026.39	Rp 29,026.39
11-Jun-15			0	37.89			Rp 29,026.39	Rp 29,026.39
12-Jun-15			0	37.89			Rp 29,026.39	Rp 29,026.39
13-Jun-15			1.17	36.72			Rp 28,130.09	Rp 28,130.09
14-Jun-15			0	36.72			Rp 28,130.09	Rp 28,130.09
15-Jun-15			0	36.72			Rp 28,130.09	Rp 28,130.09
16-Jun-15			0	36.72			Rp 28,130.09	Rp 28,130.09
17-Jun-15			18.9	17.82			Rp 13,651.37	Rp 13,651.37
18-Jun-15			2.05	15.77			Rp 12,080.92	Rp 12,080.92
19-Jun-15			0	15.77			Rp 12,080.92	Rp 12,080.92
20-Jun-15			19.77	-4		Rp 1,556,301.60	Rp 12,080.92	Rp 1,568,382.52
21-Jun-15			0	15.77			Rp 12,080.92	Rp 12,080.92
22-Jun-15			0	15.77			Rp 12,080.92	Rp 12,080.92
23-Jun-15			0	15.77			Rp 12,080.92	Rp 12,080.92
24-Jun-15			0	15.77			Rp 12,080.92	Rp 12,080.92
25-Jun-15			0	15.77			Rp 12,080.92	Rp 12,080.92
26-Jun-15			0	15.77			Rp 12,080.92	Rp 12,080.92
27-Jun-15			0	15.77			Rp 12,080.92	Rp 12,080.92
28-Jun-15			0	15.77			Rp 12,080.92	Rp 12,080.92
29-Jun-15			0	15.77			Rp 12,080.92	Rp 12,080.92
30-Jun-15			17.67	-1.9		Rp 1,556,301.60	Rp 12,080.92	Rp 1,568,382.52
1-Jul-15			0	15.77			Rp 12,080.92	Rp 12,080.92
2-Jul-15			0	15.77			Rp 12,080.92	Rp 12,080.92
3-Jul-15			0	15.77			Rp 12,080.92	Rp 12,080.92
4-Jul-15			2.82	12.95			Rp 9,920.61	Rp 9,920.61
5-Jul-15			0	12.95			Rp 9,920.61	Rp 9,920.61
6-Jul-15			0	12.95			Rp 9,920.61	Rp 9,920.61
7-Jul-15			0	12.95			Rp 9,920.61	Rp 9,920.61
8-Jul-15			0	12.95			Rp 9,920.61	Rp 9,920.61
9-Jul-15			0	12.95			Rp 9,920.61	Rp 9,920.61
10-Jul-15			0.46	12.49			Rp 9,568.21	Rp 9,568.21
11-Jul-15			0	12.49			Rp 9,568.21	Rp 9,568.21

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
12-Jul-15			0	12.49			Rp 9,568.21	Rp 9,568.21
13-Jul-15			0.41	12.08			Rp 9,254.13	Rp 9,254.13
14-Jul-15			0	12.08			Rp 9,254.13	Rp 9,254.13
15-Jul-15			0	12.08			Rp 9,254.13	Rp 9,254.13
16-Jul-15			0	12.08			Rp 9,254.13	Rp 9,254.13
17-Jul-15			0	12.08			Rp 9,254.13	Rp 9,254.13
18-Jul-15			3.59	8.49			Rp 6,503.93	Rp 6,503.93
19-Jul-15			0	8.49			Rp 6,503.93	Rp 6,503.93
20-Jul-15			0	8.49			Rp 6,503.93	Rp 6,503.93
21-Jul-15			0	8.49			Rp 6,503.93	Rp 6,503.93
22-Jul-15			0.03	8.46			Rp 6,480.95	Rp 6,480.95
23-Jul-15			0	8.46			Rp 6,480.95	Rp 6,480.95
24-Jul-15	11.63		3.99	4.47	Rp 131,774.28		Rp 3,424.33	Rp 135,198.61
25-Jul-15			0	4.47			Rp 3,424.33	Rp 3,424.33
26-Jul-15			0	4.47			Rp 3,424.33	Rp 3,424.33
27-Jul-15		11.63	0	16.1			Rp 12,333.73	Rp 12,333.73
28-Jul-15			0	16.1			Rp 12,333.73	Rp 12,333.73
29-Jul-15			0	16.1			Rp 12,333.73	Rp 12,333.73
30-Jul-15			0	16.1			Rp 12,333.73	Rp 12,333.73
31-Jul-15			0	16.1			Rp 12,333.73	Rp 12,333.73
1-Aug-15			0	16.1			Rp 12,333.73	Rp 12,333.73
2-Aug-15			0	16.1			Rp 12,333.73	Rp 12,333.73
3-Aug-15			0	16.1			Rp 12,333.73	Rp 12,333.73
4-Aug-15			0	16.1			Rp 12,333.73	Rp 12,333.73
5-Aug-15			0	16.1			Rp 12,333.73	Rp 12,333.73
6-Aug-15			0	16.1			Rp 12,333.73	Rp 12,333.73
7-Aug-15			0	16.1			Rp 12,333.73	Rp 12,333.73
8-Aug-15			0	16.1			Rp 12,333.73	Rp 12,333.73
9-Aug-15			0	16.1			Rp 12,333.73	Rp 12,333.73
10-Aug-15			0	16.1			Rp 12,333.73	Rp 12,333.73
11-Aug-15			0	16.1			Rp 12,333.73	Rp 12,333.73
12-Aug-15			0	16.1			Rp 12,333.73	Rp 12,333.73
13-Aug-15			0	16.1			Rp 12,333.73	Rp 12,333.73
14-Aug-15			0	16.1			Rp 12,333.73	Rp 12,333.73
15-Aug-15			0	16.1			Rp 12,333.73	Rp 12,333.73
16-Aug-15			0	16.1			Rp 12,333.73	Rp 12,333.73
17-Aug-15			0	16.1			Rp 12,333.73	Rp 12,333.73
18-Aug-15			6.58	9.52			Rp 7,292.99	Rp 7,292.99
19-Aug-15			0	9.52			Rp 7,292.99	Rp 7,292.99
20-Aug-15			0	9.52			Rp 7,292.99	Rp 7,292.99
21-Aug-15			0	9.52			Rp 7,292.99	Rp 7,292.99
22-Aug-15			0	9.52			Rp 7,292.99	Rp 7,292.99
23-Aug-15			0	9.52			Rp 7,292.99	Rp 7,292.99
24-Aug-15			0	9.52			Rp 7,292.99	Rp 7,292.99
25-Aug-15			0	9.52			Rp 7,292.99	Rp 7,292.99
26-Aug-15			1.3	8.22			Rp 6,297.10	Rp 6,297.10
27-Aug-15			0	8.22			Rp 6,297.10	Rp 6,297.10
28-Aug-15			0	8.22			Rp 6,297.10	Rp 6,297.10
29-Aug-15			0	8.22			Rp 6,297.10	Rp 6,297.10
30-Aug-15			0	8.22			Rp 6,297.10	Rp 6,297.10
31-Aug-15			0	8.22			Rp 6,297.10	Rp 6,297.10
1-Sep-15			0	8.22			Rp 6,297.10	Rp 6,297.10
2-Sep-15			0	8.22			Rp 6,297.10	Rp 6,297.10
3-Sep-15			0	8.22			Rp 6,297.10	Rp 6,297.10
4-Sep-15			0	8.22			Rp 6,297.10	Rp 6,297.10
5-Sep-15			0	8.22			Rp 6,297.10	Rp 6,297.10
6-Sep-15			0	8.22			Rp 6,297.10	Rp 6,297.10
7-Sep-15			0	8.22			Rp 6,297.10	Rp 6,297.10
8-Sep-15			0	8.22			Rp 6,297.10	Rp 6,297.10
9-Sep-15			0	8.22			Rp 6,297.10	Rp 6,297.10
10-Sep-15			0	8.22			Rp 6,297.10	Rp 6,297.10
11-Sep-15	11.63		1.94	6.28	Rp 131,774.28		Rp 4,810.92	Rp 136,585.20
12-Sep-15			0	6.28			Rp 4,810.92	Rp 4,810.92
13-Sep-15			0	6.28			Rp 4,810.92	Rp 4,810.92
14-Sep-15		11.63	0	17.91			Rp 13,720.31	Rp 13,720.31
15-Sep-15			0	17.91			Rp 13,720.31	Rp 13,720.31
16-Sep-15			0	17.91			Rp 13,720.31	Rp 13,720.31
17-Sep-15			3.83	14.08			Rp 10,786.27	Rp 10,786.27
18-Sep-15			0	14.08			Rp 10,786.27	Rp 10,786.27
19-Sep-15			0	14.08			Rp 10,786.27	Rp 10,786.27
20-Sep-15			0	14.08			Rp 10,786.27	Rp 10,786.27
21-Sep-15			2.2	11.88			Rp 9,100.91	Rp 9,100.91
22-Sep-15			0	11.88			Rp 9,100.91	Rp 9,100.91
23-Sep-15			0	11.88			Rp 9,100.91	Rp 9,100.91

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
24-Sep-15			0	11.88			Rp 9,100.91	Rp 9,100.91
25-Sep-15			1.53	10.35			Rp 7,928.82	Rp 7,928.82
26-Sep-15			0	10.35			Rp 7,928.82	Rp 7,928.82
27-Sep-15			0	10.35			Rp 7,928.82	Rp 7,928.82
28-Sep-15			0	10.35			Rp 7,928.82	Rp 7,928.82
29-Sep-15			0	10.35			Rp 7,928.82	Rp 7,928.82
30-Sep-15			1.55	8.8			Rp 6,741.42	Rp 6,741.42
1-Oct-15			0	8.8			Rp 6,741.42	Rp 6,741.42
2-Oct-15			0	8.8			Rp 6,741.42	Rp 6,741.42
3-Oct-15			0	8.8			Rp 6,741.42	Rp 6,741.42
4-Oct-15			0	8.8			Rp 6,741.42	Rp 6,741.42
5-Oct-15			0	8.8			Rp 6,741.42	Rp 6,741.42
6-Oct-15			0	8.8			Rp 6,741.42	Rp 6,741.42
7-Oct-15			0	8.8			Rp 6,741.42	Rp 6,741.42
8-Oct-15			0	8.8			Rp 6,741.42	Rp 6,741.42
9-Oct-15	11.63		3.62	5.18	Rp 131,774.28		Rp 3,968.24	Rp 135,742.52
10-Oct-15			0	5.18			Rp 3,968.24	Rp 3,968.24
11-Oct-15			0	5.18			Rp 3,968.24	Rp 3,968.24
12-Oct-15		11.63	0	16.81			Rp 12,877.64	Rp 12,877.64
13-Oct-15			1.95	14.86			Rp 11,383.80	Rp 11,383.80
14-Oct-15			0	14.86			Rp 11,383.80	Rp 11,383.80
15-Oct-15			0	14.86			Rp 11,383.80	Rp 11,383.80
16-Oct-15			0	14.86			Rp 11,383.80	Rp 11,383.80
17-Oct-15			0	14.86			Rp 11,383.80	Rp 11,383.80
18-Oct-15			0	14.86			Rp 11,383.80	Rp 11,383.80
19-Oct-15			3.59	11.27			Rp 8,633.61	Rp 8,633.61
20-Oct-15			0	11.27			Rp 8,633.61	Rp 8,633.61
21-Oct-15			2.92	8.35			Rp 6,396.68	Rp 6,396.68
22-Oct-15			0	8.35			Rp 6,396.68	Rp 6,396.68
23-Oct-15			0	8.35			Rp 6,396.68	Rp 6,396.68
24-Oct-15			0	8.35			Rp 6,396.68	Rp 6,396.68
25-Oct-15			0	8.35			Rp 6,396.68	Rp 6,396.68
26-Oct-15			0	8.35			Rp 6,396.68	Rp 6,396.68
27-Oct-15			0	8.35			Rp 6,396.68	Rp 6,396.68
28-Oct-15			0	8.35			Rp 6,396.68	Rp 6,396.68
29-Oct-15			0	8.35			Rp 6,396.68	Rp 6,396.68
30-Oct-15			0	8.35			Rp 6,396.68	Rp 6,396.68
31-Oct-15			0	8.35			Rp 6,396.68	Rp 6,396.68
1-Nov-15			0	8.35			Rp 6,396.68	Rp 6,396.68
2-Nov-15			0	8.35			Rp 6,396.68	Rp 6,396.68
3-Nov-15			0	8.35			Rp 6,396.68	Rp 6,396.68
4-Nov-15			0	8.35			Rp 6,396.68	Rp 6,396.68
5-Nov-15			0	8.35			Rp 6,396.68	Rp 6,396.68
6-Nov-15			0	8.35			Rp 6,396.68	Rp 6,396.68
7-Nov-15			0	8.35			Rp 6,396.68	Rp 6,396.68
8-Nov-15			0.38	7.97			Rp 6,105.58	Rp 6,105.58
9-Nov-15			0	7.97			Rp 6,105.58	Rp 6,105.58
10-Nov-15			0	7.97			Rp 6,105.58	Rp 6,105.58
11-Nov-15			0	7.97			Rp 6,105.58	Rp 6,105.58
12-Nov-15			0	7.97			Rp 6,105.58	Rp 6,105.58
13-Nov-15			0	7.97			Rp 6,105.58	Rp 6,105.58
14-Nov-15			8.56	-0.59		Rp 1,556,301.60	Rp 6,105.58	Rp 1,562,407.18
15-Nov-15			0	7.97			Rp 6,105.58	Rp 6,105.58
16-Nov-15			0	7.97			Rp 6,105.58	Rp 6,105.58
17-Nov-15			0	7.97			Rp 6,105.58	Rp 6,105.58
18-Nov-15			0	7.97			Rp 6,105.58	Rp 6,105.58
19-Nov-15			0	7.97			Rp 6,105.58	Rp 6,105.58
20-Nov-15			0	7.97			Rp 6,105.58	Rp 6,105.58
21-Nov-15			0	7.97			Rp 6,105.58	Rp 6,105.58
22-Nov-15			0	7.97			Rp 6,105.58	Rp 6,105.58
23-Nov-15			1.11	6.86			Rp 5,255.24	Rp 5,255.24
24-Nov-15			0	6.86			Rp 5,255.24	Rp 5,255.24
25-Nov-15			0	6.86			Rp 5,255.24	Rp 5,255.24
26-Nov-15			0	6.86			Rp 5,255.24	Rp 5,255.24
27-Nov-15			0	6.86			Rp 5,255.24	Rp 5,255.24
28-Nov-15			0	6.86			Rp 5,255.24	Rp 5,255.24
29-Nov-15			0	6.86			Rp 5,255.24	Rp 5,255.24
30-Nov-15			0.8	6.06			Rp 4,642.38	Rp 4,642.38
1-Dec-15	11.63		4.35	1.71	Rp 131,774.28		Rp 1,309.98	Rp 133,084.26
2-Dec-15			0	1.71			Rp 1,309.98	Rp 1,309.98
3-Dec-15		11.63	0	13.34			Rp 10,219.37	Rp 10,219.37
4-Dec-15			0	13.34			Rp 10,219.37	Rp 10,219.37
5-Dec-15			0	13.34			Rp 10,219.37	Rp 10,219.37
6-Dec-15			4.64	8.7			Rp 6,664.81	Rp 6,664.81

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
7-Dec-15			0	8.7			Rp 6,664.81	Rp 6,664.81
8-Dec-15			0	8.7			Rp 6,664.81	Rp 6,664.81
9-Dec-15			0	8.7			Rp 6,664.81	Rp 6,664.81
10-Dec-15			0	8.7			Rp 6,664.81	Rp 6,664.81
11-Dec-15			0	8.7			Rp 6,664.81	Rp 6,664.81
12-Dec-15			9.66	-0.96		Rp 1,556,301.60	Rp 6,664.81	Rp 1,562,966.41
13-Dec-15			0	8.7			Rp 6,664.81	Rp 6,664.81
14-Dec-15			0	8.7			Rp 6,664.81	Rp 6,664.81
15-Dec-15			0	8.7			Rp 6,664.81	Rp 6,664.81
16-Dec-15			0	8.7			Rp 6,664.81	Rp 6,664.81
17-Dec-15			0	8.7			Rp 6,664.81	Rp 6,664.81
18-Dec-15			0	8.7			Rp 6,664.81	Rp 6,664.81
19-Dec-15			0	8.7			Rp 6,664.81	Rp 6,664.81
20-Dec-15			1.9	6.8			Rp 5,209.28	Rp 5,209.28
21-Dec-15			0	6.8			Rp 5,209.28	Rp 5,209.28
22-Dec-15			0	6.8			Rp 5,209.28	Rp 5,209.28
23-Dec-15			0	6.8			Rp 5,209.28	Rp 5,209.28
24-Dec-15			0	6.8			Rp 5,209.28	Rp 5,209.28
25-Dec-15			0	6.8			Rp 5,209.28	Rp 5,209.28
26-Dec-15			0	6.8			Rp 5,209.28	Rp 5,209.28
27-Dec-15			0	6.8			Rp 5,209.28	Rp 5,209.28
28-Dec-15			9.97	-3.17		Rp 1,556,301.60	Rp 5,209.28	Rp 1,561,510.88
29-Dec-15			0	6.8			Rp 5,209.28	Rp 5,209.28
30-Dec-15			0	6.8			Rp 5,209.28	Rp 5,209.28
31-Dec-15			0	6.8			Rp 5,209.28	Rp 5,209.28
								Rp 17,473,774.67

Replication 7

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
3-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
4-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
5-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
6-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
7-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
8-Jan-15			0.03	84.72			Rp 64,901.45	Rp 64,901.45
9-Jan-15			0	84.72			Rp 64,901.45	Rp 64,901.45
10-Jan-15			0	84.72			Rp 64,901.45	Rp 64,901.45
11-Jan-15			0	84.72			Rp 64,901.45	Rp 64,901.45
12-Jan-15			0	84.72			Rp 64,901.45	Rp 64,901.45
13-Jan-15			0	84.72			Rp 64,901.45	Rp 64,901.45
14-Jan-15			1.71	83.01			Rp 63,591.47	Rp 63,591.47
15-Jan-15			0	83.01			Rp 63,591.47	Rp 63,591.47
16-Jan-15			0	83.01			Rp 63,591.47	Rp 63,591.47
17-Jan-15			0	83.01			Rp 63,591.47	Rp 63,591.47
18-Jan-15			0.12	82.89			Rp 63,499.54	Rp 63,499.54
19-Jan-15			0	82.89			Rp 63,499.54	Rp 63,499.54
20-Jan-15			0	82.89			Rp 63,499.54	Rp 63,499.54
21-Jan-15			0	82.89			Rp 63,499.54	Rp 63,499.54
22-Jan-15			0	82.89			Rp 63,499.54	Rp 63,499.54
23-Jan-15			0.6	82.29			Rp 63,039.90	Rp 63,039.90
24-Jan-15			0	82.29			Rp 63,039.90	Rp 63,039.90
25-Jan-15			0	82.29			Rp 63,039.90	Rp 63,039.90
26-Jan-15			0	82.29			Rp 63,039.90	Rp 63,039.90
27-Jan-15			0	82.29			Rp 63,039.90	Rp 63,039.90
28-Jan-15			0	82.29			Rp 63,039.90	Rp 63,039.90
29-Jan-15			0	82.29			Rp 63,039.90	Rp 63,039.90
30-Jan-15			0	82.29			Rp 63,039.90	Rp 63,039.90
31-Jan-15			0.89	81.4			Rp 62,358.10	Rp 62,358.10
1-Feb-15			0	81.4			Rp 62,358.10	Rp 62,358.10
2-Feb-15			0.18	81.22			Rp 62,220.21	Rp 62,220.21
3-Feb-15			0	81.22			Rp 62,220.21	Rp 62,220.21
4-Feb-15			0	81.22			Rp 62,220.21	Rp 62,220.21
5-Feb-15			0	81.22			Rp 62,220.21	Rp 62,220.21
6-Feb-15			0	81.22			Rp 62,220.21	Rp 62,220.21
7-Feb-15			0	81.22			Rp 62,220.21	Rp 62,220.21
8-Feb-15			18.85	62.37			Rp 47,779.79	Rp 47,779.79
9-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
10-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
11-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
12-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
13-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
14-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
15-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
16-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
17-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
18-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
19-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
20-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
21-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
22-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
23-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
24-Feb-15			0.77	61.6			Rp 47,189.91	Rp 47,189.91
25-Feb-15			0	61.6			Rp 47,189.91	Rp 47,189.91
26-Feb-15			0	61.6			Rp 47,189.91	Rp 47,189.91
27-Feb-15			0	61.6			Rp 47,189.91	Rp 47,189.91
28-Feb-15			0	61.6			Rp 47,189.91	Rp 47,189.91
1-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
2-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
3-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
4-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
5-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
6-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
7-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
8-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
9-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
10-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
11-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
12-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
13-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
14-Mar-15			1.31	60.29			Rp 46,186.36	Rp 46,186.36
15-Mar-15			0	60.29			Rp 46,186.36	Rp 46,186.36
16-Mar-15			0	60.29			Rp 46,186.36	Rp 46,186.36
17-Mar-15			0	60.29			Rp 46,186.36	Rp 46,186.36
18-Mar-15			0	60.29			Rp 46,186.36	Rp 46,186.36
19-Mar-15			0	60.29			Rp 46,186.36	Rp 46,186.36
20-Mar-15			0	60.29			Rp 46,186.36	Rp 46,186.36
21-Mar-15			0.69	59.6			Rp 45,657.77	Rp 45,657.77
22-Mar-15			0	59.6			Rp 45,657.77	Rp 45,657.77
23-Mar-15			0	59.6			Rp 45,657.77	Rp 45,657.77
24-Mar-15			0.87	58.73			Rp 44,991.29	Rp 44,991.29
25-Mar-15			0	58.73			Rp 44,991.29	Rp 44,991.29
26-Mar-15			0.08	58.65			Rp 44,930.01	Rp 44,930.01
27-Mar-15			0	58.65			Rp 44,930.01	Rp 44,930.01
28-Mar-15			0	58.65			Rp 44,930.01	Rp 44,930.01
29-Mar-15			0	58.65			Rp 44,930.01	Rp 44,930.01
30-Mar-15			0	58.65			Rp 44,930.01	Rp 44,930.01
31-Mar-15			0	58.65			Rp 44,930.01	Rp 44,930.01
1-Apr-15			0	58.65			Rp 44,930.01	Rp 44,930.01
2-Apr-15			0.75	57.9			Rp 44,355.45	Rp 44,355.45
3-Apr-15			1.88	56.02			Rp 42,915.24	Rp 42,915.24
4-Apr-15			0	56.02			Rp 42,915.24	Rp 42,915.24
5-Apr-15			0	56.02			Rp 42,915.24	Rp 42,915.24
6-Apr-15			2.48	53.54			Rp 41,015.39	Rp 41,015.39
7-Apr-15			0	53.54			Rp 41,015.39	Rp 41,015.39
8-Apr-15			0	53.54			Rp 41,015.39	Rp 41,015.39
9-Apr-15			0	53.54			Rp 41,015.39	Rp 41,015.39
10-Apr-15			0	53.54			Rp 41,015.39	Rp 41,015.39
11-Apr-15			19.99	33.55			Rp 25,701.65	Rp 25,701.65
12-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
13-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
14-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
15-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
16-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
17-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
18-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
19-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
20-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
21-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
22-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
23-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
24-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
25-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
26-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
27-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
28-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
29-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
30-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
1-May-15			0	33.55			Rp 25,701.65	Rp 25,701.65
2-May-15			0	33.55			Rp 25,701.65	Rp 25,701.65
3-May-15			0	33.55			Rp 25,701.65	Rp 25,701.65
4-May-15			0	33.55			Rp 25,701.65	Rp 25,701.65
5-May-15			0	33.55			Rp 25,701.65	Rp 25,701.65
6-May-15			0	33.55			Rp 25,701.65	Rp 25,701.65
7-May-15			0.83	32.72			Rp 25,065.81	Rp 25,065.81
8-May-15			0	32.72			Rp 25,065.81	Rp 25,065.81
9-May-15			0	32.72			Rp 25,065.81	Rp 25,065.81
10-May-15			0	32.72			Rp 25,065.81	Rp 25,065.81
11-May-15			0	32.72			Rp 25,065.81	Rp 25,065.81
12-May-15			0	32.72			Rp 25,065.81	Rp 25,065.81
13-May-15			0	32.72			Rp 25,065.81	Rp 25,065.81
14-May-15			0	32.72			Rp 25,065.81	Rp 25,065.81
15-May-15			0	32.72			Rp 25,065.81	Rp 25,065.81
16-May-15			0	32.72			Rp 25,065.81	Rp 25,065.81
17-May-15			0	32.72			Rp 25,065.81	Rp 25,065.81
18-May-15			1.23	31.49			Rp 24,123.54	Rp 24,123.54
19-May-15			0	31.49			Rp 24,123.54	Rp 24,123.54
20-May-15			0	31.49			Rp 24,123.54	Rp 24,123.54
21-May-15			0	31.49			Rp 24,123.54	Rp 24,123.54
22-May-15			0	31.49			Rp 24,123.54	Rp 24,123.54
23-May-15			0	31.49			Rp 24,123.54	Rp 24,123.54
24-May-15			0	31.49			Rp 24,123.54	Rp 24,123.54
25-May-15			0	31.49			Rp 24,123.54	Rp 24,123.54
26-May-15			1.05	30.44			Rp 23,319.17	Rp 23,319.17
27-May-15			0	30.44			Rp 23,319.17	Rp 23,319.17
28-May-15			0	30.44			Rp 23,319.17	Rp 23,319.17
29-May-15			0.45	29.99			Rp 22,974.44	Rp 22,974.44
30-May-15			0	29.99			Rp 22,974.44	Rp 22,974.44
31-May-15			0	29.99			Rp 22,974.44	Rp 22,974.44
1-Jun-15			0	29.99			Rp 22,974.44	Rp 22,974.44
2-Jun-15			0	29.99			Rp 22,974.44	Rp 22,974.44
3-Jun-15			3.44	26.55			Rp 20,339.16	Rp 20,339.16
4-Jun-15			0	26.55			Rp 20,339.16	Rp 20,339.16
5-Jun-15			3.11	23.44			Rp 17,956.68	Rp 17,956.68
6-Jun-15			0	23.44			Rp 17,956.68	Rp 17,956.68
7-Jun-15			0	23.44			Rp 17,956.68	Rp 17,956.68
8-Jun-15			0.84	22.6			Rp 17,313.18	Rp 17,313.18
9-Jun-15			0	22.6			Rp 17,313.18	Rp 17,313.18
10-Jun-15			0	22.6			Rp 17,313.18	Rp 17,313.18
11-Jun-15			0	22.6			Rp 17,313.18	Rp 17,313.18
12-Jun-15			0	22.6			Rp 17,313.18	Rp 17,313.18
13-Jun-15			3.77	18.83			Rp 14,425.10	Rp 14,425.10
14-Jun-15			9.44	9.39			Rp 7,193.40	Rp 7,193.40
15-Jun-15			0	9.39			Rp 7,193.40	Rp 7,193.40
16-Jun-15			0	9.39			Rp 7,193.40	Rp 7,193.40
17-Jun-15			0	9.39			Rp 7,193.40	Rp 7,193.40
18-Jun-15			0	9.39			Rp 7,193.40	Rp 7,193.40
19-Jun-15			0	9.39			Rp 7,193.40	Rp 7,193.40
20-Jun-15			0	9.39			Rp 7,193.40	Rp 7,193.40
21-Jun-15			0	9.39			Rp 7,193.40	Rp 7,193.40
22-Jun-15			0	9.39			Rp 7,193.40	Rp 7,193.40
23-Jun-15			0	9.39			Rp 7,193.40	Rp 7,193.40
24-Jun-15			0	9.39			Rp 7,193.40	Rp 7,193.40
25-Jun-15			0	9.39			Rp 7,193.40	Rp 7,193.40
26-Jun-15			0	9.39			Rp 7,193.40	Rp 7,193.40
27-Jun-15			0	9.39			Rp 7,193.40	Rp 7,193.40
28-Jun-15			0	9.39			Rp 7,193.40	Rp 7,193.40
29-Jun-15			0	9.39			Rp 7,193.40	Rp 7,193.40
30-Jun-15			0	9.39			Rp 7,193.40	Rp 7,193.40
1-Jul-15			0	9.39			Rp 7,193.40	Rp 7,193.40
2-Jul-15			0	9.39			Rp 7,193.40	Rp 7,193.40
3-Jul-15			0	9.39			Rp 7,193.40	Rp 7,193.40
4-Jul-15			0	9.39			Rp 7,193.40	Rp 7,193.40
5-Jul-15			0	9.39			Rp 7,193.40	Rp 7,193.40
6-Jul-15			0	9.39			Rp 7,193.40	Rp 7,193.40
7-Jul-15			0	9.39			Rp 7,193.40	Rp 7,193.40

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
8-Jul-15			0.67	8.72			Rp 6,680.13	Rp 6,680.13
9-Jul-15			0	8.72			Rp 6,680.13	Rp 6,680.13
10-Jul-15			1.52	7.2			Rp 5,515.70	Rp 5,515.70
11-Jul-15			0	7.2			Rp 5,515.70	Rp 5,515.70
12-Jul-15			0	7.2			Rp 5,515.70	Rp 5,515.70
13-Jul-15			0	7.2			Rp 5,515.70	Rp 5,515.70
14-Jul-15			0	7.2			Rp 5,515.70	Rp 5,515.70
15-Jul-15			0	7.2			Rp 5,515.70	Rp 5,515.70
16-Jul-15			0	7.2			Rp 5,515.70	Rp 5,515.70
17-Jul-15			0	7.2			Rp 5,515.70	Rp 5,515.70
18-Jul-15			0	7.2			Rp 5,515.70	Rp 5,515.70
19-Jul-15			9.74	-2.54		Rp 1,556,301.60	Rp 5,515.70	Rp 1,561,817.30
20-Jul-15	11.63		0.75	6.45	Rp 131,774.28		Rp 4,941.15	Rp 136,715.43
21-Jul-15			0	6.45			Rp 4,941.15	Rp 4,941.15
22-Jul-15		11.63	0	18.08			Rp 13,850.55	Rp 13,850.55
23-Jul-15			0	18.08			Rp 13,850.55	Rp 13,850.55
24-Jul-15			0	18.08			Rp 13,850.55	Rp 13,850.55
25-Jul-15			0	18.08			Rp 13,850.55	Rp 13,850.55
26-Jul-15			0	18.08			Rp 13,850.55	Rp 13,850.55
27-Jul-15			2.17	15.91			Rp 12,188.17	Rp 12,188.17
28-Jul-15			0	15.91			Rp 12,188.17	Rp 12,188.17
29-Jul-15			0	15.91			Rp 12,188.17	Rp 12,188.17
30-Jul-15			0	15.91			Rp 12,188.17	Rp 12,188.17
31-Jul-15			0	15.91			Rp 12,188.17	Rp 12,188.17
1-Aug-15			0	15.91			Rp 12,188.17	Rp 12,188.17
2-Aug-15			0	15.91			Rp 12,188.17	Rp 12,188.17
3-Aug-15			0	15.91			Rp 12,188.17	Rp 12,188.17
4-Aug-15			0	15.91			Rp 12,188.17	Rp 12,188.17
5-Aug-15			0	15.91			Rp 12,188.17	Rp 12,188.17
6-Aug-15			0	15.91			Rp 12,188.17	Rp 12,188.17
7-Aug-15			0	15.91			Rp 12,188.17	Rp 12,188.17
8-Aug-15			0	15.91			Rp 12,188.17	Rp 12,188.17
9-Aug-15			0	15.91			Rp 12,188.17	Rp 12,188.17
10-Aug-15			0	15.91			Rp 12,188.17	Rp 12,188.17
11-Aug-15			0	15.91			Rp 12,188.17	Rp 12,188.17
12-Aug-15			0	15.91			Rp 12,188.17	Rp 12,188.17
13-Aug-15			0	15.91			Rp 12,188.17	Rp 12,188.17
14-Aug-15			0	15.91			Rp 12,188.17	Rp 12,188.17
15-Aug-15			0	15.91			Rp 12,188.17	Rp 12,188.17
16-Aug-15			0	15.91			Rp 12,188.17	Rp 12,188.17
17-Aug-15			0	15.91			Rp 12,188.17	Rp 12,188.17
18-Aug-15			0	15.91			Rp 12,188.17	Rp 12,188.17
19-Aug-15			1.84	14.07			Rp 10,778.60	Rp 10,778.60
20-Aug-15			0	14.07			Rp 10,778.60	Rp 10,778.60
21-Aug-15			0	14.07			Rp 10,778.60	Rp 10,778.60
22-Aug-15			0	14.07			Rp 10,778.60	Rp 10,778.60
23-Aug-15			0	14.07			Rp 10,778.60	Rp 10,778.60
24-Aug-15	11.63		9.8	4.27	Rp 131,774.28		Rp 3,271.12	Rp 135,045.40
25-Aug-15			0	4.27			Rp 3,271.12	Rp 3,271.12
26-Aug-15			0	4.27			Rp 3,271.12	Rp 3,271.12
27-Aug-15			0	4.27			Rp 3,271.12	Rp 3,271.12
28-Aug-15		11.63	0	15.9			Rp 12,180.51	Rp 12,180.51
29-Aug-15			0	15.9			Rp 12,180.51	Rp 12,180.51
30-Aug-15			0	15.9			Rp 12,180.51	Rp 12,180.51
31-Aug-15			0	15.9			Rp 12,180.51	Rp 12,180.51
1-Sep-15			0	15.9			Rp 12,180.51	Rp 12,180.51
2-Sep-15			0	15.9			Rp 12,180.51	Rp 12,180.51
3-Sep-15			0	15.9			Rp 12,180.51	Rp 12,180.51
4-Sep-15			0	15.9			Rp 12,180.51	Rp 12,180.51
5-Sep-15			0	15.9			Rp 12,180.51	Rp 12,180.51
6-Sep-15			1.53	14.37			Rp 11,008.43	Rp 11,008.43
7-Sep-15			0	14.37			Rp 11,008.43	Rp 11,008.43
8-Sep-15			0	14.37			Rp 11,008.43	Rp 11,008.43
9-Sep-15			0	14.37			Rp 11,008.43	Rp 11,008.43
10-Sep-15			0	14.37			Rp 11,008.43	Rp 11,008.43
11-Sep-15			0	14.37			Rp 11,008.43	Rp 11,008.43
12-Sep-15			0.01	14.36			Rp 11,000.77	Rp 11,000.77
13-Sep-15			0	14.36			Rp 11,000.77	Rp 11,000.77
14-Sep-15			0	14.36			Rp 11,000.77	Rp 11,000.77
15-Sep-15			0	14.36			Rp 11,000.77	Rp 11,000.77
16-Sep-15			0	14.36			Rp 11,000.77	Rp 11,000.77
17-Sep-15			0	14.36			Rp 11,000.77	Rp 11,000.77
18-Sep-15			0	14.36			Rp 11,000.77	Rp 11,000.77
19-Sep-15			0	14.36			Rp 11,000.77	Rp 11,000.77

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
20-Sep-15			0	14.36			Rp 11,000.77	Rp 11,000.77
21-Sep-15			0	14.36			Rp 11,000.77	Rp 11,000.77
22-Sep-15			0	14.36			Rp 11,000.77	Rp 11,000.77
23-Sep-15	11.63		8.74	5.62	Rp 131,774.28		Rp 4,305.31	Rp 136,079.59
24-Sep-15			0	5.62			Rp 4,305.31	Rp 4,305.31
25-Sep-15		11.63	0	17.25			Rp 13,214.71	Rp 13,214.71
26-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
27-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
28-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
29-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
30-Sep-15			0	17.25			Rp 13,214.71	Rp 13,214.71
1-Oct-15			0	17.25			Rp 13,214.71	Rp 13,214.71
2-Oct-15			0	17.25			Rp 13,214.71	Rp 13,214.71
3-Oct-15			0	17.25			Rp 13,214.71	Rp 13,214.71
4-Oct-15			0	17.25			Rp 13,214.71	Rp 13,214.71
5-Oct-15			0	17.25			Rp 13,214.71	Rp 13,214.71
6-Oct-15			0	17.25			Rp 13,214.71	Rp 13,214.71
7-Oct-15			0	17.25			Rp 13,214.71	Rp 13,214.71
8-Oct-15			2.27	14.98			Rp 11,475.73	Rp 11,475.73
9-Oct-15			0	14.98			Rp 11,475.73	Rp 11,475.73
10-Oct-15			0	14.98			Rp 11,475.73	Rp 11,475.73
11-Oct-15			0	14.98			Rp 11,475.73	Rp 11,475.73
12-Oct-15			0	14.98			Rp 11,475.73	Rp 11,475.73
13-Oct-15			0	14.98			Rp 11,475.73	Rp 11,475.73
14-Oct-15			0	14.98			Rp 11,475.73	Rp 11,475.73
15-Oct-15			0	14.98			Rp 11,475.73	Rp 11,475.73
16-Oct-15			0	14.98			Rp 11,475.73	Rp 11,475.73
17-Oct-15			0.7	14.28			Rp 10,939.48	Rp 10,939.48
18-Oct-15			1.3	12.98			Rp 9,943.59	Rp 9,943.59
19-Oct-15			0	12.98			Rp 9,943.59	Rp 9,943.59
20-Oct-15			0	12.98			Rp 9,943.59	Rp 9,943.59
21-Oct-15			0	12.98			Rp 9,943.59	Rp 9,943.59
22-Oct-15	11.63		9.23	3.75	Rp 131,774.28		Rp 2,872.76	Rp 134,647.04
23-Oct-15			0	3.75			Rp 2,872.76	Rp 2,872.76
24-Oct-15			0	3.75			Rp 2,872.76	Rp 2,872.76
25-Oct-15			0	3.75			Rp 2,872.76	Rp 2,872.76
26-Oct-15		11.63	0	15.38			Rp 11,782.16	Rp 11,782.16
27-Oct-15			0	15.38			Rp 11,782.16	Rp 11,782.16
28-Oct-15			0	15.38			Rp 11,782.16	Rp 11,782.16
29-Oct-15			3.21	12.17			Rp 9,323.07	Rp 9,323.07
30-Oct-15			0.02	12.15			Rp 9,307.75	Rp 9,307.75
31-Oct-15			0	12.15			Rp 9,307.75	Rp 9,307.75
1-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
2-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
3-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
4-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
5-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
6-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
7-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
8-Nov-15			19.51	-7.36		Rp 1,556,301.60	Rp 9,307.75	Rp 1,565,609.35
9-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
10-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
11-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
12-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
13-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
14-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
15-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
16-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
17-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
18-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
19-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
20-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
21-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
22-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
23-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
24-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
25-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
26-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
27-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
28-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
29-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
30-Nov-15			0	12.15			Rp 9,307.75	Rp 9,307.75
1-Dec-15			0	12.15			Rp 9,307.75	Rp 9,307.75
2-Dec-15			0	12.15			Rp 9,307.75	Rp 9,307.75

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
3-Dec-15			0	12.15			Rp 9,307.75	Rp 9,307.75
4-Dec-15			0	12.15			Rp 9,307.75	Rp 9,307.75
5-Dec-15			0	12.15			Rp 9,307.75	Rp 9,307.75
6-Dec-15			0	12.15			Rp 9,307.75	Rp 9,307.75
7-Dec-15			0	12.15			Rp 9,307.75	Rp 9,307.75
8-Dec-15			0	12.15			Rp 9,307.75	Rp 9,307.75
9-Dec-15			0	12.15			Rp 9,307.75	Rp 9,307.75
10-Dec-15			0	12.15			Rp 9,307.75	Rp 9,307.75
11-Dec-15			0	12.15			Rp 9,307.75	Rp 9,307.75
12-Dec-15			0	12.15			Rp 9,307.75	Rp 9,307.75
13-Dec-15			0	12.15			Rp 9,307.75	Rp 9,307.75
14-Dec-15			1.98	10.17			Rp 7,790.93	Rp 7,790.93
15-Dec-15			0	10.17			Rp 7,790.93	Rp 7,790.93
16-Dec-15			0	10.17			Rp 7,790.93	Rp 7,790.93
17-Dec-15			0	10.17			Rp 7,790.93	Rp 7,790.93
18-Dec-15			0	10.17			Rp 7,790.93	Rp 7,790.93
19-Dec-15			0	10.17			Rp 7,790.93	Rp 7,790.93
20-Dec-15			0	10.17			Rp 7,790.93	Rp 7,790.93
21-Dec-15			0	10.17			Rp 7,790.93	Rp 7,790.93
22-Dec-15			0	10.17			Rp 7,790.93	Rp 7,790.93
23-Dec-15			0	10.17			Rp 7,790.93	Rp 7,790.93
24-Dec-15			0	10.17			Rp 7,790.93	Rp 7,790.93
25-Dec-15			0	10.17			Rp 7,790.93	Rp 7,790.93
26-Dec-15			0	10.17			Rp 7,790.93	Rp 7,790.93
27-Dec-15			0	10.17			Rp 7,790.93	Rp 7,790.93
28-Dec-15			0	10.17			Rp 7,790.93	Rp 7,790.93
29-Dec-15			0	10.17			Rp 7,790.93	Rp 7,790.93
30-Dec-15			0	10.17			Rp 7,790.93	Rp 7,790.93
31-Dec-15			0	10.17			Rp 7,790.93	Rp 7,790.93
			43		4	2		Rp 12,410,818.78

APPENDIX E

CONTINUOUS REVIEW LEAD TIME

(AC 260 Gr 79 x 109)

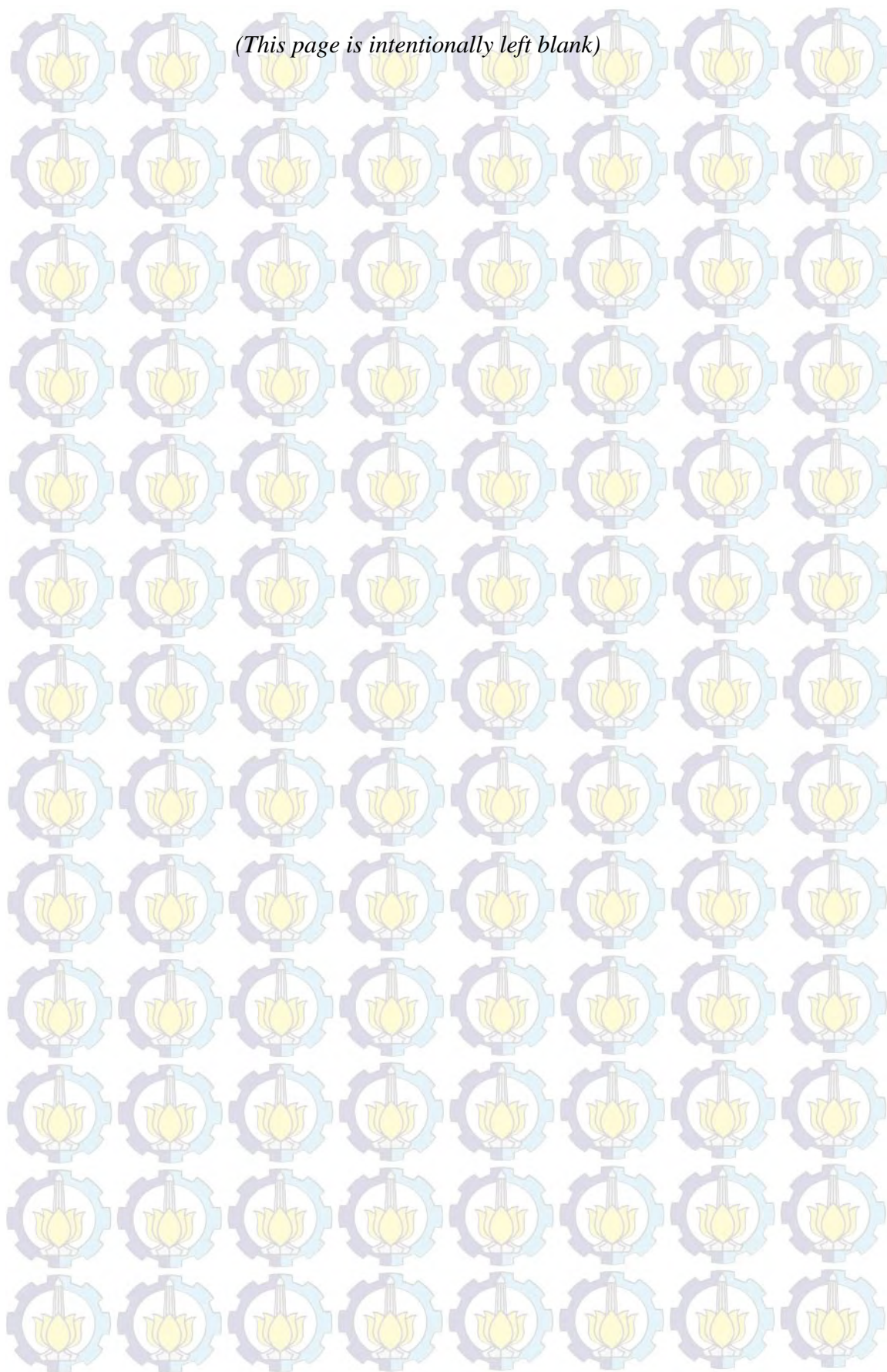
Random Value

No	Random 1	Random2	Random 3	Random 4	Random 5	Random 6	Random 7
1	0.22951537	0.07262231	0.73041601	0.35579931	0.24885848	0.60018393	0.22907444
2	0.53673041	0.59180258	0.55343793	0.91673658	0.69762561	0.71009087	0.82052324
3	0.73259162		0.15080117	0.1917808	0.52084447	0.6605796	0.16184289
4	0.70698493			0.44492238	0.30711767	0.32222218	0.8269609
5				0.10693526	0.37758689		
6				0.06286258	0.22098697		

Generated Lead Time

No	Value 1	Value 2	Value 3	Value 4	Value 5	Value 6	Value 7
1	2	1	3	2	2	3	2
2	3	3	3	6	3	3	4
3	3		2	2	3	3	2
4	3			2	2	2	4
5				1	2		
6				1	2		

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APPENDIX F

PERIODIC REVIEW REPLICATION (AC 260 Gr 79 x 109)

Replication 1

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
3-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
4-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
5-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
6-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
7-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
8-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
9-Jan-15			9.84	74.91			Rp 57,386.30	Rp 57,386.30
10-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
11-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
12-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
13-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
14-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
15-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
16-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
17-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
18-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
19-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
20-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
21-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
22-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
23-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
24-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
25-Jan-15			0	74.91			Rp 57,386.30	Rp 57,386.30
26-Jan-15			0.89	74.02			Rp 56,704.50	Rp 56,704.50
27-Jan-15			0	74.02			Rp 56,704.50	Rp 56,704.50
28-Jan-15			0	74.02			Rp 56,704.50	Rp 56,704.50
29-Jan-15			0	74.02			Rp 56,704.50	Rp 56,704.50
30-Jan-15			0	74.02			Rp 56,704.50	Rp 56,704.50
31-Jan-15			0	74.02			Rp 56,704.50	Rp 56,704.50
1-Feb-15			0	74.02			Rp 56,704.50	Rp 56,704.50
2-Feb-15			0	74.02			Rp 56,704.50	Rp 56,704.50
3-Feb-15			0	74.02			Rp 56,704.50	Rp 56,704.50
4-Feb-15			1.85	72.17			Rp 55,287.27	Rp 55,287.27
5-Feb-15			0	72.17			Rp 55,287.27	Rp 55,287.27
6-Feb-15			0	72.17			Rp 55,287.27	Rp 55,287.27
7-Feb-15			0	72.17			Rp 55,287.27	Rp 55,287.27
8-Feb-15			0	72.17			Rp 55,287.27	Rp 55,287.27
9-Feb-15			0	72.17			Rp 55,287.27	Rp 55,287.27
10-Feb-15			0	72.17			Rp 55,287.27	Rp 55,287.27
11-Feb-15			0	72.17			Rp 55,287.27	Rp 55,287.27
12-Feb-15			0	72.17			Rp 55,287.27	Rp 55,287.27
13-Feb-15			0	72.17			Rp 55,287.27	Rp 55,287.27
14-Feb-15			0	72.17			Rp 55,287.27	Rp 55,287.27
15-Feb-15			0.29	71.88			Rp 55,065.11	Rp 55,065.11
16-Feb-15			0	71.88			Rp 55,065.11	Rp 55,065.11
17-Feb-15			0	71.88			Rp 55,065.11	Rp 55,065.11
18-Feb-15			0	71.88			Rp 55,065.11	Rp 55,065.11
19-Feb-15			0	71.88			Rp 55,065.11	Rp 55,065.11
20-Feb-15			0	71.88			Rp 55,065.11	Rp 55,065.11
21-Feb-15			0	71.88			Rp 55,065.11	Rp 55,065.11
22-Feb-15			0	71.88			Rp 55,065.11	Rp 55,065.11
23-Feb-15			0	71.88			Rp 55,065.11	Rp 55,065.11
24-Feb-15			16.29	55.59			Rp 42,585.83	Rp 42,585.83
25-Feb-15			0	55.59			Rp 42,585.83	Rp 42,585.83
26-Feb-15			0	55.59			Rp 42,585.83	Rp 42,585.83
27-Feb-15			0	55.59			Rp 42,585.83	Rp 42,585.83
28-Feb-15			0	55.59			Rp 42,585.83	Rp 42,585.83
1-Mar-15			0	55.59			Rp 42,585.83	Rp 42,585.83
2-Mar-15			0	55.59			Rp 42,585.83	Rp 42,585.83
3-Mar-15			0	55.59			Rp 42,585.83	Rp 42,585.83
4-Mar-15			0	55.59			Rp 42,585.83	Rp 42,585.83

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
5-Mar-15			0	55.59			Rp 42,585.83	Rp 42,585.83
6-Mar-15			0	55.59			Rp 42,585.83	Rp 42,585.83
7-Mar-15			0	55.59			Rp 42,585.83	Rp 42,585.83
8-Mar-15			0	55.59			Rp 42,585.83	Rp 42,585.83
9-Mar-15			7.74	47.85			Rp 36,656.45	Rp 36,656.45
10-Mar-15			0	47.85			Rp 36,656.45	Rp 36,656.45
11-Mar-15			2.32	45.53			Rp 34,879.17	Rp 34,879.17
12-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
13-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
14-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
15-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
16-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
17-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
18-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
19-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
20-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
21-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
22-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
23-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
24-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
25-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
26-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
27-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
28-Mar-15			0	45.53			Rp 34,879.17	Rp 34,879.17
29-Mar-15			4.82	40.71			Rp 31,186.71	Rp 31,186.71
30-Mar-15			2.06	38.65			Rp 29,608.61	Rp 29,608.61
31-Mar-15			0	38.65			Rp 29,608.61	Rp 29,608.61
1-Apr-15			0	38.65			Rp 29,608.61	Rp 29,608.61
2-Apr-15			0	38.65			Rp 29,608.61	Rp 29,608.61
3-Apr-15			0	38.65			Rp 29,608.61	Rp 29,608.61
4-Apr-15			0	38.65			Rp 29,608.61	Rp 29,608.61
5-Apr-15			0	38.65			Rp 29,608.61	Rp 29,608.61
6-Apr-15			0	38.65			Rp 29,608.61	Rp 29,608.61
7-Apr-15			0	38.65			Rp 29,608.61	Rp 29,608.61
8-Apr-15			0	38.65			Rp 29,608.61	Rp 29,608.61
9-Apr-15			0	38.65			Rp 29,608.61	Rp 29,608.61
10-Apr-15			0	38.65			Rp 29,608.61	Rp 29,608.61
11-Apr-15			0	38.65			Rp 29,608.61	Rp 29,608.61
12-Apr-15			2.91	35.74			Rp 27,379.34	Rp 27,379.34
13-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
14-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
15-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
16-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
17-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
18-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
19-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
20-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
21-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
22-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
23-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
24-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
25-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
26-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
27-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
28-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
29-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
30-Apr-15			0	35.74			Rp 27,379.34	Rp 27,379.34
1-May-15			0	35.74			Rp 27,379.34	Rp 27,379.34
2-May-15			0	35.74			Rp 27,379.34	Rp 27,379.34
3-May-15			0	35.74			Rp 27,379.34	Rp 27,379.34
4-May-15			0.61	35.13			Rp 26,912.04	Rp 26,912.04
5-May-15			0	35.13			Rp 26,912.04	Rp 26,912.04
6-May-15			0	35.13			Rp 26,912.04	Rp 26,912.04
7-May-15			17.57	17.56			Rp 13,452.19	Rp 13,452.19
8-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
9-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
10-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
11-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
12-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
13-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
14-May-15			0	17.56			Rp 13,452.19	Rp 13,452.19
15-May-15	13.17		0	17.56	Rp 131,774.28		Rp 13,452.19	Rp 145,226.47
16-May-15		13.17	0	30.73			Rp 23,541.33	Rp 23,541.33
17-May-15			0	30.73			Rp 23,541.33	Rp 23,541.33

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
18-May-15			0	30.73			Rp 23,541.33	Rp 23,541.33
19-May-15			0	30.73			Rp 23,541.33	Rp 23,541.33
20-May-15			0	30.73			Rp 23,541.33	Rp 23,541.33
21-May-15			0	30.73			Rp 23,541.33	Rp 23,541.33
22-May-15			0	30.73			Rp 23,541.33	Rp 23,541.33
23-May-15			0	30.73			Rp 23,541.33	Rp 23,541.33
24-May-15			0	30.73			Rp 23,541.33	Rp 23,541.33
25-May-15			0	30.73			Rp 23,541.33	Rp 23,541.33
26-May-15			3.61	27.12			Rp 20,775.82	Rp 20,775.82
27-May-15			0	27.12			Rp 20,775.82	Rp 20,775.82
28-May-15			0	27.12			Rp 20,775.82	Rp 20,775.82
29-May-15			0	27.12			Rp 20,775.82	Rp 20,775.82
30-May-15			0	27.12			Rp 20,775.82	Rp 20,775.82
31-May-15			0	27.12			Rp 20,775.82	Rp 20,775.82
1-Jun-15			0	27.12			Rp 20,775.82	Rp 20,775.82
2-Jun-15			0	27.12			Rp 20,775.82	Rp 20,775.82
3-Jun-15			0	27.12			Rp 20,775.82	Rp 20,775.82
4-Jun-15			1	26.12			Rp 20,009.75	Rp 20,009.75
5-Jun-15			0	26.12			Rp 20,009.75	Rp 20,009.75
6-Jun-15			0	26.12			Rp 20,009.75	Rp 20,009.75
7-Jun-15			0	26.12			Rp 20,009.75	Rp 20,009.75
8-Jun-15			0	26.12			Rp 20,009.75	Rp 20,009.75
9-Jun-15			0	26.12			Rp 20,009.75	Rp 20,009.75
10-Jun-15			8.07	18.05			Rp 13,827.56	Rp 13,827.56
11-Jun-15			0	18.05			Rp 13,827.56	Rp 13,827.56
12-Jun-15			0	18.05			Rp 13,827.56	Rp 13,827.56
13-Jun-15			0	18.05			Rp 13,827.56	Rp 13,827.56
14-Jun-15			0	18.05			Rp 13,827.56	Rp 13,827.56
15-Jun-15			0	18.05			Rp 13,827.56	Rp 13,827.56
16-Jun-15			0	18.05			Rp 13,827.56	Rp 13,827.56
17-Jun-15			0	18.05			Rp 13,827.56	Rp 13,827.56
18-Jun-15			0	18.05			Rp 13,827.56	Rp 13,827.56
19-Jun-15			0	18.05			Rp 13,827.56	Rp 13,827.56
20-Jun-15			0	18.05			Rp 13,827.56	Rp 13,827.56
21-Jun-15			0	18.05			Rp 13,827.56	Rp 13,827.56
22-Jun-15			0	18.05			Rp 13,827.56	Rp 13,827.56
23-Jun-15			0	18.05			Rp 13,827.56	Rp 13,827.56
24-Jun-15			0	18.05			Rp 13,827.56	Rp 13,827.56
25-Jun-15			0	18.05			Rp 13,827.56	Rp 13,827.56
26-Jun-15			0	18.05			Rp 13,827.56	Rp 13,827.56
27-Jun-15			0	18.05			Rp 13,827.56	Rp 13,827.56
28-Jun-15			0	18.05			Rp 13,827.56	Rp 13,827.56
29-Jun-15			0	18.05			Rp 13,827.56	Rp 13,827.56
30-Jun-15			0	18.05			Rp 13,827.56	Rp 13,827.56
1-Jul-15			0	18.05			Rp 13,827.56	Rp 13,827.56
2-Jul-15			0	18.05			Rp 13,827.56	Rp 13,827.56
3-Jul-15			0	18.05			Rp 13,827.56	Rp 13,827.56
4-Jul-15			0	18.05			Rp 13,827.56	Rp 13,827.56
5-Jul-15			0	18.05			Rp 13,827.56	Rp 13,827.56
6-Jul-15			0	18.05			Rp 13,827.56	Rp 13,827.56
7-Jul-15			0	18.05			Rp 13,827.56	Rp 13,827.56
8-Jul-15			0	18.05			Rp 13,827.56	Rp 13,827.56
9-Jul-15			0	18.05			Rp 13,827.56	Rp 13,827.56
10-Jul-15			0	18.05			Rp 13,827.56	Rp 13,827.56
11-Jul-15			0	18.05			Rp 13,827.56	Rp 13,827.56
12-Jul-15			0	18.05			Rp 13,827.56	Rp 13,827.56
13-Jul-15			0	18.05			Rp 13,827.56	Rp 13,827.56
14-Jul-15			0	18.05			Rp 13,827.56	Rp 13,827.56
15-Jul-15			0	18.05			Rp 13,827.56	Rp 13,827.56
16-Jul-15			2.95	15.1			Rp 11,567.66	Rp 11,567.66
17-Jul-15			0	15.1			Rp 11,567.66	Rp 11,567.66
18-Jul-15			0	15.1			Rp 11,567.66	Rp 11,567.66
19-Jul-15			0	15.1			Rp 11,567.66	Rp 11,567.66
20-Jul-15			0	15.1			Rp 11,567.66	Rp 11,567.66
21-Jul-15			0	15.1			Rp 11,567.66	Rp 11,567.66
22-Jul-15			0	15.1			Rp 11,567.66	Rp 11,567.66
23-Jul-15			0	15.1			Rp 11,567.66	Rp 11,567.66
24-Jul-15			0	15.1			Rp 11,567.66	Rp 11,567.66
25-Jul-15			0	15.1			Rp 11,567.66	Rp 11,567.66
26-Jul-15			0	15.1			Rp 11,567.66	Rp 11,567.66
27-Jul-15			0	15.1			Rp 11,567.66	Rp 11,567.66
28-Jul-15			0	15.1			Rp 11,567.66	Rp 11,567.66
29-Jul-15			1.21	13.89			Rp 10,640.71	Rp 10,640.71
30-Jul-15			0	13.89			Rp 10,640.71	Rp 10,640.71

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Jul-15			0	13.89			Rp 10,640.71	Rp 10,640.71
1-Aug-15			0	13.89			Rp 10,640.71	Rp 10,640.71
2-Aug-15			0	13.89			Rp 10,640.71	Rp 10,640.71
3-Aug-15			0	13.89			Rp 10,640.71	Rp 10,640.71
4-Aug-15			0	13.89			Rp 10,640.71	Rp 10,640.71
5-Aug-15			0	13.89			Rp 10,640.71	Rp 10,640.71
6-Aug-15			0	13.89			Rp 10,640.71	Rp 10,640.71
7-Aug-15			0	13.89			Rp 10,640.71	Rp 10,640.71
8-Aug-15			0	13.89			Rp 10,640.71	Rp 10,640.71
9-Aug-15			0	13.89			Rp 10,640.71	Rp 10,640.71
10-Aug-15			1.05	12.84			Rp 9,836.34	Rp 9,836.34
11-Aug-15			0	12.84			Rp 9,836.34	Rp 9,836.34
12-Aug-15			0	12.84			Rp 9,836.34	Rp 9,836.34
13-Aug-15	17.89		0	12.84	Rp 131,774.28		Rp 9,836.34	Rp 141,610.62
14-Aug-15			0	12.84			Rp 9,836.34	Rp 9,836.34
15-Aug-15			0	12.84			Rp 9,836.34	Rp 9,836.34
16-Aug-15		17.89	0	30.73			Rp 23,541.33	Rp 23,541.33
17-Aug-15			0	30.73			Rp 23,541.33	Rp 23,541.33
18-Aug-15			0	30.73			Rp 23,541.33	Rp 23,541.33
19-Aug-15			0	30.73			Rp 23,541.33	Rp 23,541.33
20-Aug-15			0	30.73			Rp 23,541.33	Rp 23,541.33
21-Aug-15			0	30.73			Rp 23,541.33	Rp 23,541.33
22-Aug-15			1.33	29.4			Rp 22,522.46	Rp 22,522.46
23-Aug-15			0	29.4			Rp 22,522.46	Rp 22,522.46
24-Aug-15			0	29.4			Rp 22,522.46	Rp 22,522.46
25-Aug-15			1.65	27.75			Rp 21,258.44	Rp 21,258.44
26-Aug-15			0	27.75			Rp 21,258.44	Rp 21,258.44
27-Aug-15			0	27.75			Rp 21,258.44	Rp 21,258.44
28-Aug-15			0	27.75			Rp 21,258.44	Rp 21,258.44
29-Aug-15			0	27.75			Rp 21,258.44	Rp 21,258.44
30-Aug-15			0	27.75			Rp 21,258.44	Rp 21,258.44
31-Aug-15			0	27.75			Rp 21,258.44	Rp 21,258.44
1-Sep-15			0	27.75			Rp 21,258.44	Rp 21,258.44
2-Sep-15			0	27.75			Rp 21,258.44	Rp 21,258.44
3-Sep-15			0	27.75			Rp 21,258.44	Rp 21,258.44
4-Sep-15			0	27.75			Rp 21,258.44	Rp 21,258.44
5-Sep-15			3.48	24.27			Rp 18,592.52	Rp 18,592.52
6-Sep-15			0	24.27			Rp 18,592.52	Rp 18,592.52
7-Sep-15			0	24.27			Rp 18,592.52	Rp 18,592.52
8-Sep-15			0	24.27			Rp 18,592.52	Rp 18,592.52
9-Sep-15			0	24.27			Rp 18,592.52	Rp 18,592.52
10-Sep-15			0	24.27			Rp 18,592.52	Rp 18,592.52
11-Sep-15			0	24.27			Rp 18,592.52	Rp 18,592.52
12-Sep-15			0	24.27			Rp 18,592.52	Rp 18,592.52
13-Sep-15			0	24.27			Rp 18,592.52	Rp 18,592.52
14-Sep-15			0.29	23.98			Rp 18,370.36	Rp 18,370.36
15-Sep-15			0	23.98			Rp 18,370.36	Rp 18,370.36
16-Sep-15			0	23.98			Rp 18,370.36	Rp 18,370.36
17-Sep-15			0	23.98			Rp 18,370.36	Rp 18,370.36
18-Sep-15			0	23.98			Rp 18,370.36	Rp 18,370.36
19-Sep-15			0	23.98			Rp 18,370.36	Rp 18,370.36
20-Sep-15			0	23.98			Rp 18,370.36	Rp 18,370.36
21-Sep-15			0	23.98			Rp 18,370.36	Rp 18,370.36
22-Sep-15			0	23.98			Rp 18,370.36	Rp 18,370.36
23-Sep-15			0	23.98			Rp 18,370.36	Rp 18,370.36
24-Sep-15			0	23.98			Rp 18,370.36	Rp 18,370.36
25-Sep-15			0	23.98			Rp 18,370.36	Rp 18,370.36
26-Sep-15			0	23.98			Rp 18,370.36	Rp 18,370.36
27-Sep-15			2.65	21.33			Rp 16,340.27	Rp 16,340.27
28-Sep-15			0	21.33			Rp 16,340.27	Rp 16,340.27
29-Sep-15			0	21.33			Rp 16,340.27	Rp 16,340.27
30-Sep-15			0	21.33			Rp 16,340.27	Rp 16,340.27
1-Oct-15			0	21.33			Rp 16,340.27	Rp 16,340.27
2-Oct-15			0	21.33			Rp 16,340.27	Rp 16,340.27
3-Oct-15			0	21.33			Rp 16,340.27	Rp 16,340.27
4-Oct-15			0	21.33			Rp 16,340.27	Rp 16,340.27
5-Oct-15			0	21.33			Rp 16,340.27	Rp 16,340.27
6-Oct-15			0	21.33			Rp 16,340.27	Rp 16,340.27
7-Oct-15			0	21.33			Rp 16,340.27	Rp 16,340.27
8-Oct-15			0	21.33			Rp 16,340.27	Rp 16,340.27
9-Oct-15			0	21.33			Rp 16,340.27	Rp 16,340.27
10-Oct-15			0	21.33			Rp 16,340.27	Rp 16,340.27
11-Oct-15			0	21.33			Rp 16,340.27	Rp 16,340.27
12-Oct-15			0	21.33			Rp 16,340.27	Rp 16,340.27

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
13-Oct-15			1.21	20.12			Rp 15,413.33	Rp 15,413.33
14-Oct-15			0	20.12			Rp 15,413.33	Rp 15,413.33
15-Oct-15			3.86	16.26			Rp 12,456.30	Rp 12,456.30
16-Oct-15			0	16.26			Rp 12,456.30	Rp 12,456.30
17-Oct-15			0	16.26			Rp 12,456.30	Rp 12,456.30
18-Oct-15			0	16.26			Rp 12,456.30	Rp 12,456.30
19-Oct-15			0	16.26			Rp 12,456.30	Rp 12,456.30
20-Oct-15			5.74	10.52			Rp 8,059.06	Rp 8,059.06
21-Oct-15			0	10.52			Rp 8,059.06	Rp 8,059.06
22-Oct-15			0	10.52			Rp 8,059.06	Rp 8,059.06
23-Oct-15			0	10.52			Rp 8,059.06	Rp 8,059.06
24-Oct-15			0	10.52			Rp 8,059.06	Rp 8,059.06
25-Oct-15			0	10.52			Rp 8,059.06	Rp 8,059.06
26-Oct-15			0	10.52			Rp 8,059.06	Rp 8,059.06
27-Oct-15			0	10.52			Rp 8,059.06	Rp 8,059.06
28-Oct-15			0	10.52			Rp 8,059.06	Rp 8,059.06
29-Oct-15			0	10.52			Rp 8,059.06	Rp 8,059.06
30-Oct-15			0	10.52			Rp 8,059.06	Rp 8,059.06
31-Oct-15			0	10.52			Rp 8,059.06	Rp 8,059.06
1-Nov-15			0	10.52			Rp 8,059.06	Rp 8,059.06
2-Nov-15			0	10.52			Rp 8,059.06	Rp 8,059.06
3-Nov-15			0	10.52			Rp 8,059.06	Rp 8,059.06
4-Nov-15			0	10.52			Rp 8,059.06	Rp 8,059.06
5-Nov-15			0	10.52			Rp 8,059.06	Rp 8,059.06
6-Nov-15			0	10.52			Rp 8,059.06	Rp 8,059.06
7-Nov-15			0	10.52			Rp 8,059.06	Rp 8,059.06
8-Nov-15			1.29	9.23			Rp 7,070.83	Rp 7,070.83
9-Nov-15			0	9.23			Rp 7,070.83	Rp 7,070.83
10-Nov-15			0.95	8.28			Rp 6,343.06	Rp 6,343.06
11-Nov-15	22.45		0	8.28	Rp 131,774.28		Rp 6,343.06	Rp 138,117.34
12-Nov-15			0	8.28			Rp 6,343.06	Rp 6,343.06
13-Nov-15			0	8.28			Rp 6,343.06	Rp 6,343.06
14-Nov-15		22.45	0	30.73			Rp 23,541.33	Rp 23,541.33
15-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
16-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
17-Nov-15			0.53	30.2			Rp 23,135.31	Rp 23,135.31
18-Nov-15			0	30.2			Rp 23,135.31	Rp 23,135.31
19-Nov-15			0	30.2			Rp 23,135.31	Rp 23,135.31
20-Nov-15			0	30.2			Rp 23,135.31	Rp 23,135.31
21-Nov-15			0	30.2			Rp 23,135.31	Rp 23,135.31
22-Nov-15			8.24	21.96			Rp 16,822.90	Rp 16,822.90
23-Nov-15			0	21.96			Rp 16,822.90	Rp 16,822.90
24-Nov-15			0	21.96			Rp 16,822.90	Rp 16,822.90
25-Nov-15			0	21.96			Rp 16,822.90	Rp 16,822.90
26-Nov-15			0	21.96			Rp 16,822.90	Rp 16,822.90
27-Nov-15			0	21.96			Rp 16,822.90	Rp 16,822.90
28-Nov-15			0	21.96			Rp 16,822.90	Rp 16,822.90
29-Nov-15			0.97	20.99			Rp 16,079.81	Rp 16,079.81
30-Nov-15			0	20.99			Rp 16,079.81	Rp 16,079.81
1-Dec-15			0	20.99			Rp 16,079.81	Rp 16,079.81
2-Dec-15			0	20.99			Rp 16,079.81	Rp 16,079.81
3-Dec-15			0	20.99			Rp 16,079.81	Rp 16,079.81
4-Dec-15			0	20.99			Rp 16,079.81	Rp 16,079.81
5-Dec-15			0	20.99			Rp 16,079.81	Rp 16,079.81
6-Dec-15			0	20.99			Rp 16,079.81	Rp 16,079.81
7-Dec-15			0	20.99			Rp 16,079.81	Rp 16,079.81
8-Dec-15			0	20.99			Rp 16,079.81	Rp 16,079.81
9-Dec-15			0	20.99			Rp 16,079.81	Rp 16,079.81
10-Dec-15			0	20.99			Rp 16,079.81	Rp 16,079.81
11-Dec-15			0	20.99			Rp 16,079.81	Rp 16,079.81
12-Dec-15			0	20.99			Rp 16,079.81	Rp 16,079.81
13-Dec-15			0	20.99			Rp 16,079.81	Rp 16,079.81
14-Dec-15			0	20.99			Rp 16,079.81	Rp 16,079.81
15-Dec-15			0	20.99			Rp 16,079.81	Rp 16,079.81
16-Dec-15			0	20.99			Rp 16,079.81	Rp 16,079.81
17-Dec-15			0	20.99			Rp 16,079.81	Rp 16,079.81
18-Dec-15			0.34	20.65			Rp 15,819.35	Rp 15,819.35
19-Dec-15			0	20.65			Rp 15,819.35	Rp 15,819.35
20-Dec-15			0	20.65			Rp 15,819.35	Rp 15,819.35
21-Dec-15			0	20.65			Rp 15,819.35	Rp 15,819.35
22-Dec-15			0	20.65			Rp 15,819.35	Rp 15,819.35
23-Dec-15			0	20.65			Rp 15,819.35	Rp 15,819.35
24-Dec-15			0	20.65			Rp 15,819.35	Rp 15,819.35
25-Dec-15			0	20.65			Rp 15,819.35	Rp 15,819.35

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
26-Dec-15			0.14	20.51			Rp 15,712.10	Rp 15,712.10
27-Dec-15			0	20.51			Rp 15,712.10	Rp 15,712.10
28-Dec-15			0	20.51			Rp 15,712.10	Rp 15,712.10
29-Dec-15			0	20.51			Rp 15,712.10	Rp 15,712.10
30-Dec-15			0	20.51			Rp 15,712.10	Rp 15,712.10
31-Dec-15			0	20.51			Rp 15,712.10	Rp 15,712.10
								Rp 9,648,031.21

Replication 2

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
3-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
4-Jan-15			0.25	84.5			Rp 64,732.92	Rp 64,732.92
5-Jan-15			0	84.5			Rp 64,732.92	Rp 64,732.92
6-Jan-15			0	84.5			Rp 64,732.92	Rp 64,732.92
7-Jan-15			1.01	83.49			Rp 63,959.18	Rp 63,959.18
8-Jan-15			0	83.49			Rp 63,959.18	Rp 63,959.18
9-Jan-15			0	83.49			Rp 63,959.18	Rp 63,959.18
10-Jan-15			0	83.49			Rp 63,959.18	Rp 63,959.18
11-Jan-15			0	83.49			Rp 63,959.18	Rp 63,959.18
12-Jan-15			0	83.49			Rp 63,959.18	Rp 63,959.18
13-Jan-15			0	83.49			Rp 63,959.18	Rp 63,959.18
14-Jan-15			0	83.49			Rp 63,959.18	Rp 63,959.18
15-Jan-15			3.23	80.26			Rp 61,484.78	Rp 61,484.78
16-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
17-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
18-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
19-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
20-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
21-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
22-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
23-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
24-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
25-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
26-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
27-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
28-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
29-Jan-15			0	80.26			Rp 61,484.78	Rp 61,484.78
30-Jan-15			1.5	78.76			Rp 60,335.67	Rp 60,335.67
31-Jan-15			0	78.76			Rp 60,335.67	Rp 60,335.67
1-Feb-15			0	78.76			Rp 60,335.67	Rp 60,335.67
2-Feb-15			0	78.76			Rp 60,335.67	Rp 60,335.67
3-Feb-15			1.17	77.59			Rp 59,439.37	Rp 59,439.37
4-Feb-15			2.09	75.5			Rp 57,838.29	Rp 57,838.29
5-Feb-15			1.38	74.12			Rp 56,781.11	Rp 56,781.11
6-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
7-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
8-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
9-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
10-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
11-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
12-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
13-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
14-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
15-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
16-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
17-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
18-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
19-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
20-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
21-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
22-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
23-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
24-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
25-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
26-Feb-15			0	74.12			Rp 56,781.11	Rp 56,781.11
27-Feb-15			3.07	71.05			Rp 54,429.27	Rp 54,429.27
28-Feb-15			0	71.05			Rp 54,429.27	Rp 54,429.27

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
1-Mar-15			0	71.05			Rp 54,429.27	Rp 54,429.27
2-Mar-15			0	71.05			Rp 54,429.27	Rp 54,429.27
3-Mar-15			0	71.05			Rp 54,429.27	Rp 54,429.27
4-Mar-15			0	71.05			Rp 54,429.27	Rp 54,429.27
5-Mar-15			0	71.05			Rp 54,429.27	Rp 54,429.27
6-Mar-15			0	71.05			Rp 54,429.27	Rp 54,429.27
7-Mar-15			0	71.05			Rp 54,429.27	Rp 54,429.27
8-Mar-15			0	71.05			Rp 54,429.27	Rp 54,429.27
9-Mar-15			0	71.05			Rp 54,429.27	Rp 54,429.27
10-Mar-15			0.13	70.92			Rp 54,329.68	Rp 54,329.68
11-Mar-15			0	70.92			Rp 54,329.68	Rp 54,329.68
12-Mar-15			0	70.92			Rp 54,329.68	Rp 54,329.68
13-Mar-15			0	70.92			Rp 54,329.68	Rp 54,329.68
14-Mar-15			0	70.92			Rp 54,329.68	Rp 54,329.68
15-Mar-15			0	70.92			Rp 54,329.68	Rp 54,329.68
16-Mar-15			0	70.92			Rp 54,329.68	Rp 54,329.68
17-Mar-15			0	70.92			Rp 54,329.68	Rp 54,329.68
18-Mar-15			0	70.92			Rp 54,329.68	Rp 54,329.68
19-Mar-15			0	70.92			Rp 54,329.68	Rp 54,329.68
20-Mar-15			2.51	68.41			Rp 52,406.85	Rp 52,406.85
21-Mar-15			0	68.41			Rp 52,406.85	Rp 52,406.85
22-Mar-15			0.18	68.23			Rp 52,268.96	Rp 52,268.96
23-Mar-15			0	68.23			Rp 52,268.96	Rp 52,268.96
24-Mar-15			0	68.23			Rp 52,268.96	Rp 52,268.96
25-Mar-15			0	68.23			Rp 52,268.96	Rp 52,268.96
26-Mar-15			0	68.23			Rp 52,268.96	Rp 52,268.96
27-Mar-15			0	68.23			Rp 52,268.96	Rp 52,268.96
28-Mar-15			0	68.23			Rp 52,268.96	Rp 52,268.96
29-Mar-15			0	68.23			Rp 52,268.96	Rp 52,268.96
30-Mar-15			0	68.23			Rp 52,268.96	Rp 52,268.96
31-Mar-15			0	68.23			Rp 52,268.96	Rp 52,268.96
1-Apr-15			0	68.23			Rp 52,268.96	Rp 52,268.96
2-Apr-15			0	68.23			Rp 52,268.96	Rp 52,268.96
3-Apr-15			0	68.23			Rp 52,268.96	Rp 52,268.96
4-Apr-15			0	68.23			Rp 52,268.96	Rp 52,268.96
5-Apr-15			1.51	66.72			Rp 51,112.19	Rp 51,112.19
6-Apr-15			0	66.72			Rp 51,112.19	Rp 51,112.19
7-Apr-15			0	66.72			Rp 51,112.19	Rp 51,112.19
8-Apr-15			0	66.72			Rp 51,112.19	Rp 51,112.19
9-Apr-15			0	66.72			Rp 51,112.19	Rp 51,112.19
10-Apr-15			0	66.72			Rp 51,112.19	Rp 51,112.19
11-Apr-15			0	66.72			Rp 51,112.19	Rp 51,112.19
12-Apr-15			0	66.72			Rp 51,112.19	Rp 51,112.19
13-Apr-15			0	66.72			Rp 51,112.19	Rp 51,112.19
14-Apr-15			5.86	60.86			Rp 46,623.02	Rp 46,623.02
15-Apr-15			0	60.86			Rp 46,623.02	Rp 46,623.02
16-Apr-15			0	60.86			Rp 46,623.02	Rp 46,623.02
17-Apr-15			1.37	59.49			Rp 45,573.50	Rp 45,573.50
18-Apr-15			0	59.49			Rp 45,573.50	Rp 45,573.50
19-Apr-15			0	59.49			Rp 45,573.50	Rp 45,573.50
20-Apr-15			0	59.49			Rp 45,573.50	Rp 45,573.50
21-Apr-15			0	59.49			Rp 45,573.50	Rp 45,573.50
22-Apr-15			0	59.49			Rp 45,573.50	Rp 45,573.50
23-Apr-15			1.14	58.35			Rp 44,700.18	Rp 44,700.18
24-Apr-15			0	58.35			Rp 44,700.18	Rp 44,700.18
25-Apr-15			0	58.35			Rp 44,700.18	Rp 44,700.18
26-Apr-15			0	58.35			Rp 44,700.18	Rp 44,700.18
27-Apr-15			0	58.35			Rp 44,700.18	Rp 44,700.18
28-Apr-15			0	58.35			Rp 44,700.18	Rp 44,700.18
29-Apr-15			0	58.35			Rp 44,700.18	Rp 44,700.18
30-Apr-15			0	58.35			Rp 44,700.18	Rp 44,700.18
1-May-15			0.58	57.77			Rp 44,255.86	Rp 44,255.86
2-May-15			0	57.77			Rp 44,255.86	Rp 44,255.86
3-May-15			0	57.77			Rp 44,255.86	Rp 44,255.86
4-May-15			1.96	55.81			Rp 42,754.37	Rp 42,754.37
5-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
6-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
7-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
8-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
9-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
10-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
11-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
12-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
13-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
14-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
15-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
16-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
17-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
18-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
19-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
20-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
21-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
22-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
23-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
24-May-15			0	55.81			Rp 42,754.37	Rp 42,754.37
25-May-15			3.01	52.8			Rp 40,448.50	Rp 40,448.50
26-May-15			0	52.8			Rp 40,448.50	Rp 40,448.50
27-May-15			0	52.8			Rp 40,448.50	Rp 40,448.50
28-May-15			0	52.8			Rp 40,448.50	Rp 40,448.50
29-May-15			0.85	51.95			Rp 39,797.34	Rp 39,797.34
30-May-15			0	51.95			Rp 39,797.34	Rp 39,797.34
31-May-15			7.4	44.55			Rp 34,128.42	Rp 34,128.42
1-Jun-15			0	44.55			Rp 34,128.42	Rp 34,128.42
2-Jun-15			0	44.55			Rp 34,128.42	Rp 34,128.42
3-Jun-15			0	44.55			Rp 34,128.42	Rp 34,128.42
4-Jun-15			0	44.55			Rp 34,128.42	Rp 34,128.42
5-Jun-15			0	44.55			Rp 34,128.42	Rp 34,128.42
6-Jun-15			0	44.55			Rp 34,128.42	Rp 34,128.42
7-Jun-15			0	44.55			Rp 34,128.42	Rp 34,128.42
8-Jun-15			0	44.55			Rp 34,128.42	Rp 34,128.42
9-Jun-15			0	44.55			Rp 34,128.42	Rp 34,128.42
10-Jun-15			0	44.55			Rp 34,128.42	Rp 34,128.42
11-Jun-15			2.01	42.54			Rp 32,588.62	Rp 32,588.62
12-Jun-15			0	42.54			Rp 32,588.62	Rp 32,588.62
13-Jun-15			0	42.54			Rp 32,588.62	Rp 32,588.62
14-Jun-15			0	42.54			Rp 32,588.62	Rp 32,588.62
15-Jun-15			0	42.54			Rp 32,588.62	Rp 32,588.62
16-Jun-15			0	42.54			Rp 32,588.62	Rp 32,588.62
17-Jun-15			0	42.54			Rp 32,588.62	Rp 32,588.62
18-Jun-15			0	42.54			Rp 32,588.62	Rp 32,588.62
19-Jun-15			0	42.54			Rp 32,588.62	Rp 32,588.62
20-Jun-15			0.87	41.67			Rp 31,922.14	Rp 31,922.14
21-Jun-15			0	41.67			Rp 31,922.14	Rp 31,922.14
22-Jun-15			0.63	41.04			Rp 31,439.51	Rp 31,439.51
23-Jun-15			0	41.04			Rp 31,439.51	Rp 31,439.51
24-Jun-15			0	41.04			Rp 31,439.51	Rp 31,439.51
25-Jun-15			0	41.04			Rp 31,439.51	Rp 31,439.51
26-Jun-15			0	41.04			Rp 31,439.51	Rp 31,439.51
27-Jun-15			0	41.04			Rp 31,439.51	Rp 31,439.51
28-Jun-15			0	41.04			Rp 31,439.51	Rp 31,439.51
29-Jun-15			0	41.04			Rp 31,439.51	Rp 31,439.51
30-Jun-15			0	41.04			Rp 31,439.51	Rp 31,439.51
1-Jul-15			0.93	40.11			Rp 30,727.07	Rp 30,727.07
2-Jul-15			0	40.11			Rp 30,727.07	Rp 30,727.07
3-Jul-15			0	40.11			Rp 30,727.07	Rp 30,727.07
4-Jul-15			0	40.11			Rp 30,727.07	Rp 30,727.07
5-Jul-15			0	40.11			Rp 30,727.07	Rp 30,727.07
6-Jul-15			0	40.11			Rp 30,727.07	Rp 30,727.07
7-Jul-15			0	40.11			Rp 30,727.07	Rp 30,727.07
8-Jul-15			0	40.11			Rp 30,727.07	Rp 30,727.07
9-Jul-15			0	40.11			Rp 30,727.07	Rp 30,727.07
10-Jul-15			0	40.11			Rp 30,727.07	Rp 30,727.07
11-Jul-15			0	40.11			Rp 30,727.07	Rp 30,727.07
12-Jul-15			1.27	38.84			Rp 29,754.16	Rp 29,754.16
13-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
14-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
15-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
16-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
17-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
18-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
19-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
20-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
21-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
22-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
23-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
24-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
25-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16
26-Jul-15			0	38.84			Rp 29,754.16	Rp 29,754.16

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
27-Jul-15			0.28	38.56			Rp 29,539.66	Rp 29,539.66
28-Jul-15			0	38.56			Rp 29,539.66	Rp 29,539.66
29-Jul-15			0	38.56			Rp 29,539.66	Rp 29,539.66
30-Jul-15			0	38.56			Rp 29,539.66	Rp 29,539.66
31-Jul-15			0	38.56			Rp 29,539.66	Rp 29,539.66
1-Aug-15			0	38.56			Rp 29,539.66	Rp 29,539.66
2-Aug-15			2.37	36.19			Rp 27,724.07	Rp 27,724.07
3-Aug-15			0	36.19			Rp 27,724.07	Rp 27,724.07
4-Aug-15			0.93	35.26			Rp 27,011.63	Rp 27,011.63
5-Aug-15			0	35.26			Rp 27,011.63	Rp 27,011.63
6-Aug-15			0	35.26			Rp 27,011.63	Rp 27,011.63
7-Aug-15			0	35.26			Rp 27,011.63	Rp 27,011.63
8-Aug-15			0	35.26			Rp 27,011.63	Rp 27,011.63
9-Aug-15			0	35.26			Rp 27,011.63	Rp 27,011.63
10-Aug-15			0	35.26			Rp 27,011.63	Rp 27,011.63
11-Aug-15			0	35.26			Rp 27,011.63	Rp 27,011.63
12-Aug-15			0	35.26			Rp 27,011.63	Rp 27,011.63
13-Aug-15			0	35.26			Rp 27,011.63	Rp 27,011.63
14-Aug-15			3.06	32.2			Rp 24,667.45	Rp 24,667.45
15-Aug-15			0	32.2			Rp 24,667.45	Rp 24,667.45
16-Aug-15			0	32.2			Rp 24,667.45	Rp 24,667.45
17-Aug-15			0	32.2			Rp 24,667.45	Rp 24,667.45
18-Aug-15			2.81	29.39			Rp 22,514.80	Rp 22,514.80
19-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
20-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
21-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
22-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
23-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
24-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
25-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
26-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
27-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
28-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
29-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
30-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
31-Aug-15			0	29.39			Rp 22,514.80	Rp 22,514.80
1-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
2-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
3-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
4-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
5-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
6-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
7-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
8-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
9-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
10-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
11-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
12-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
13-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
14-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
15-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
16-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
17-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
18-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
19-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
20-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
21-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
22-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
23-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
24-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
25-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
26-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
27-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
28-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
29-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
30-Sep-15			0	29.39			Rp 22,514.80	Rp 22,514.80
1-Oct-15			2.34	27.05			Rp 20,722.19	Rp 20,722.19
2-Oct-15			0	27.05			Rp 20,722.19	Rp 20,722.19
3-Oct-15			0	27.05			Rp 20,722.19	Rp 20,722.19
4-Oct-15			0	27.05			Rp 20,722.19	Rp 20,722.19
5-Oct-15			17.94	9.11			Rp 6,978.90	Rp 6,978.90
6-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
7-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
8-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
9-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
10-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
11-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
12-Oct-15	21.62		0	9.11	Rp 131,774.28		Rp 6,978.90	Rp 138,753.18
13-Oct-15			0	9.11			Rp 6,978.90	Rp 6,978.90
14-Oct-15		21.62	0	30.73			Rp 23,541.33	Rp 23,541.33
15-Oct-15			0	30.73			Rp 23,541.33	Rp 23,541.33
16-Oct-15			0	30.73			Rp 23,541.33	Rp 23,541.33
17-Oct-15			0	30.73			Rp 23,541.33	Rp 23,541.33
18-Oct-15			0	30.73			Rp 23,541.33	Rp 23,541.33
19-Oct-15			0	30.73			Rp 23,541.33	Rp 23,541.33
20-Oct-15			0	30.73			Rp 23,541.33	Rp 23,541.33
21-Oct-15			0	30.73			Rp 23,541.33	Rp 23,541.33
22-Oct-15			0	30.73			Rp 23,541.33	Rp 23,541.33
23-Oct-15			0	30.73			Rp 23,541.33	Rp 23,541.33
24-Oct-15			0	30.73			Rp 23,541.33	Rp 23,541.33
25-Oct-15			0	30.73			Rp 23,541.33	Rp 23,541.33
26-Oct-15			0	30.73			Rp 23,541.33	Rp 23,541.33
27-Oct-15			0	30.73			Rp 23,541.33	Rp 23,541.33
28-Oct-15			0	30.73			Rp 23,541.33	Rp 23,541.33
29-Oct-15			0	30.73			Rp 23,541.33	Rp 23,541.33
30-Oct-15			0	30.73			Rp 23,541.33	Rp 23,541.33
31-Oct-15			0.64	30.09			Rp 23,051.05	Rp 23,051.05
1-Nov-15			0	30.09			Rp 23,051.05	Rp 23,051.05
2-Nov-15			0	30.09			Rp 23,051.05	Rp 23,051.05
3-Nov-15			0	30.09			Rp 23,051.05	Rp 23,051.05
4-Nov-15			0	30.09			Rp 23,051.05	Rp 23,051.05
5-Nov-15			0	30.09			Rp 23,051.05	Rp 23,051.05
6-Nov-15			0	30.09			Rp 23,051.05	Rp 23,051.05
7-Nov-15			0	30.09			Rp 23,051.05	Rp 23,051.05
8-Nov-15			0	30.09			Rp 23,051.05	Rp 23,051.05
9-Nov-15			0	30.09			Rp 23,051.05	Rp 23,051.05
10-Nov-15			5.35	24.74			Rp 18,952.57	Rp 18,952.57
11-Nov-15			0	24.74			Rp 18,952.57	Rp 18,952.57
12-Nov-15			0	24.74			Rp 18,952.57	Rp 18,952.57
13-Nov-15			0	24.74			Rp 18,952.57	Rp 18,952.57
14-Nov-15			0	24.74			Rp 18,952.57	Rp 18,952.57
15-Nov-15			0	24.74			Rp 18,952.57	Rp 18,952.57
16-Nov-15			0	24.74			Rp 18,952.57	Rp 18,952.57
17-Nov-15			0	24.74			Rp 18,952.57	Rp 18,952.57
18-Nov-15			0.29	24.45			Rp 18,730.41	Rp 18,730.41
19-Nov-15			3.8	20.65			Rp 15,819.35	Rp 15,819.35
20-Nov-15			0	20.65			Rp 15,819.35	Rp 15,819.35
21-Nov-15			3.99	16.66			Rp 12,762.73	Rp 12,762.73
22-Nov-15			0	16.66			Rp 12,762.73	Rp 12,762.73
23-Nov-15			0	16.66			Rp 12,762.73	Rp 12,762.73
24-Nov-15			0	16.66			Rp 12,762.73	Rp 12,762.73
25-Nov-15			0	16.66			Rp 12,762.73	Rp 12,762.73
26-Nov-15			0	16.66			Rp 12,762.73	Rp 12,762.73
27-Nov-15			0	16.66			Rp 12,762.73	Rp 12,762.73
28-Nov-15			0	16.66			Rp 12,762.73	Rp 12,762.73
29-Nov-15			0	16.66			Rp 12,762.73	Rp 12,762.73
30-Nov-15			0	16.66			Rp 12,762.73	Rp 12,762.73
1-Dec-15			0	16.66			Rp 12,762.73	Rp 12,762.73
2-Dec-15			0	16.66			Rp 12,762.73	Rp 12,762.73
3-Dec-15			0	16.66			Rp 12,762.73	Rp 12,762.73
4-Dec-15			0	16.66			Rp 12,762.73	Rp 12,762.73
5-Dec-15			0	16.66			Rp 12,762.73	Rp 12,762.73
6-Dec-15			0	16.66			Rp 12,762.73	Rp 12,762.73
7-Dec-15			0	16.66			Rp 12,762.73	Rp 12,762.73
8-Dec-15			0	16.66			Rp 12,762.73	Rp 12,762.73
9-Dec-15			0	16.66			Rp 12,762.73	Rp 12,762.73
10-Dec-15			0	16.66			Rp 12,762.73	Rp 12,762.73
11-Dec-15	14.07		0	16.66	Rp 131,774.28		Rp 12,762.73	Rp 144,537.01
12-Dec-15			0	16.66			Rp 12,762.73	Rp 12,762.73
13-Dec-15		14.07	0	30.73			Rp 23,541.33	Rp 23,541.33
14-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33
15-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33
16-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33
17-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33
18-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33
19-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33
20-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33
21-Dec-15			1.47	29.26			Rp 22,415.21	Rp 22,415.21

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
22-Dec-15			0	29.26			Rp 22,415.21	Rp 22,415.21
23-Dec-15			0	29.26			Rp 22,415.21	Rp 22,415.21
24-Dec-15			0	29.26			Rp 22,415.21	Rp 22,415.21
25-Dec-15			0	29.26			Rp 22,415.21	Rp 22,415.21
26-Dec-15			0	29.26			Rp 22,415.21	Rp 22,415.21
27-Dec-15			0	29.26			Rp 22,415.21	Rp 22,415.21
28-Dec-15			1.47	27.79			Rp 21,289.09	Rp 21,289.09
29-Dec-15			0	27.79			Rp 21,289.09	Rp 21,289.09
30-Dec-15			0	27.79			Rp 21,289.09	Rp 21,289.09
31-Dec-15			0	27.79			Rp 21,289.09	Rp 21,289.09
								Rp 13,322,230.58

Replication 3

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			3.01	81.74			Rp 62,618.56	Rp 62,618.56
3-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
4-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
5-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
6-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
7-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
8-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
9-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
10-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
11-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
12-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
13-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
14-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
15-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
16-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
17-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
18-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
19-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
20-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
21-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
22-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
23-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
24-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
25-Jan-15			0	81.74			Rp 62,618.56	Rp 62,618.56
26-Jan-15			1.39	80.35			Rp 61,553.72	Rp 61,553.72
27-Jan-15			0	80.35			Rp 61,553.72	Rp 61,553.72
28-Jan-15			0	80.35			Rp 61,553.72	Rp 61,553.72
29-Jan-15			0	80.35			Rp 61,553.72	Rp 61,553.72
30-Jan-15			0	80.35			Rp 61,553.72	Rp 61,553.72
31-Jan-15			2.48	77.87			Rp 59,653.87	Rp 59,653.87
1-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
2-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
3-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
4-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
5-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
6-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
7-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
8-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
9-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
10-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
11-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
12-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
13-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
14-Feb-15			0	77.87			Rp 59,653.87	Rp 59,653.87
15-Feb-15			0.43	77.44			Rp 59,324.46	Rp 59,324.46
16-Feb-15			0	77.44			Rp 59,324.46	Rp 59,324.46
17-Feb-15			0	77.44			Rp 59,324.46	Rp 59,324.46
18-Feb-15			3.56	73.88			Rp 56,597.25	Rp 56,597.25
19-Feb-15			0	73.88			Rp 56,597.25	Rp 56,597.25
20-Feb-15			0	73.88			Rp 56,597.25	Rp 56,597.25
21-Feb-15			0	73.88			Rp 56,597.25	Rp 56,597.25
22-Feb-15			1.57	72.31			Rp 55,394.52	Rp 55,394.52
23-Feb-15			0	72.31			Rp 55,394.52	Rp 55,394.52
24-Feb-15			0	72.31			Rp 55,394.52	Rp 55,394.52

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
25-Feb-15			0.63	71.68			Rp 54,911.90	Rp 54,911.90
26-Feb-15			3.42	68.26			Rp 52,291.94	Rp 52,291.94
27-Feb-15			0	68.26			Rp 52,291.94	Rp 52,291.94
28-Feb-15			0	68.26			Rp 52,291.94	Rp 52,291.94
1-Mar-15			0	68.26			Rp 52,291.94	Rp 52,291.94
2-Mar-15			0.82	67.44			Rp 51,663.76	Rp 51,663.76
3-Mar-15			0	67.44			Rp 51,663.76	Rp 51,663.76
4-Mar-15			0	67.44			Rp 51,663.76	Rp 51,663.76
5-Mar-15			0	67.44			Rp 51,663.76	Rp 51,663.76
6-Mar-15			0	67.44			Rp 51,663.76	Rp 51,663.76
7-Mar-15			0	67.44			Rp 51,663.76	Rp 51,663.76
8-Mar-15			0	67.44			Rp 51,663.76	Rp 51,663.76
9-Mar-15			0	67.44			Rp 51,663.76	Rp 51,663.76
10-Mar-15			0	67.44			Rp 51,663.76	Rp 51,663.76
11-Mar-15			0	67.44			Rp 51,663.76	Rp 51,663.76
12-Mar-15			8.5	58.94			Rp 45,152.17	Rp 45,152.17
13-Mar-15			0	58.94			Rp 45,152.17	Rp 45,152.17
14-Mar-15			0.35	58.59			Rp 44,884.04	Rp 44,884.04
15-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
16-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
17-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
18-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
19-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
20-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
21-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
22-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
23-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
24-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
25-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
26-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
27-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
28-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
29-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
30-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
31-Mar-15			0	58.59			Rp 44,884.04	Rp 44,884.04
1-Apr-15			0	58.59			Rp 44,884.04	Rp 44,884.04
2-Apr-15			0.26	58.33			Rp 44,684.86	Rp 44,684.86
3-Apr-15			0	58.33			Rp 44,684.86	Rp 44,684.86
4-Apr-15			8.74	49.59			Rp 37,989.41	Rp 37,989.41
5-Apr-15			0	49.59			Rp 37,989.41	Rp 37,989.41
6-Apr-15			0	49.59			Rp 37,989.41	Rp 37,989.41
7-Apr-15			0	49.59			Rp 37,989.41	Rp 37,989.41
8-Apr-15			0	49.59			Rp 37,989.41	Rp 37,989.41
9-Apr-15			0	49.59			Rp 37,989.41	Rp 37,989.41
10-Apr-15			0	49.59			Rp 37,989.41	Rp 37,989.41
11-Apr-15			0	49.59			Rp 37,989.41	Rp 37,989.41
12-Apr-15			0	49.59			Rp 37,989.41	Rp 37,989.41
13-Apr-15			0	49.59			Rp 37,989.41	Rp 37,989.41
14-Apr-15			0	49.59			Rp 37,989.41	Rp 37,989.41
15-Apr-15			3.49	46.1			Rp 35,315.83	Rp 35,315.83
16-Apr-15			0	46.1			Rp 35,315.83	Rp 35,315.83
17-Apr-15			17.7	28.4			Rp 21,756.39	Rp 21,756.39
18-Apr-15			0.55	27.85			Rp 21,335.05	Rp 21,335.05
19-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
20-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
21-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
22-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
23-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
24-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
25-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
26-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
27-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
28-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
29-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
30-Apr-15			0	27.85			Rp 21,335.05	Rp 21,335.05
1-May-15			0	27.85			Rp 21,335.05	Rp 21,335.05
2-May-15			0	27.85			Rp 21,335.05	Rp 21,335.05
3-May-15			0	27.85			Rp 21,335.05	Rp 21,335.05
4-May-15			0	27.85			Rp 21,335.05	Rp 21,335.05
5-May-15			1.56	26.29			Rp 20,139.98	Rp 20,139.98
6-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
7-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
8-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
9-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
10-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
11-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
12-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
13-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
14-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
15-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
16-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
17-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
18-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
19-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
20-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
21-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
22-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
23-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
24-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
25-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
26-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
27-May-15			0	26.29			Rp 20,139.98	Rp 20,139.98
28-May-15			1.77	24.52			Rp 18,784.04	Rp 18,784.04
29-May-15			0	24.52			Rp 18,784.04	Rp 18,784.04
30-May-15			0	24.52			Rp 18,784.04	Rp 18,784.04
31-May-15			0	24.52			Rp 18,784.04	Rp 18,784.04
1-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
2-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
3-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
4-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
5-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
6-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
7-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
8-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
9-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
10-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
11-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
12-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
13-Jun-15			0	24.52			Rp 18,784.04	Rp 18,784.04
14-Jun-15			1.42	23.1			Rp 17,696.22	Rp 17,696.22
15-Jun-15			0	23.1			Rp 17,696.22	Rp 17,696.22
16-Jun-15			0	23.1			Rp 17,696.22	Rp 17,696.22
17-Jun-15			0	23.1			Rp 17,696.22	Rp 17,696.22
18-Jun-15			0	23.1			Rp 17,696.22	Rp 17,696.22
19-Jun-15			0	23.1			Rp 17,696.22	Rp 17,696.22
20-Jun-15			0	23.1			Rp 17,696.22	Rp 17,696.22
21-Jun-15			3.54	19.56			Rp 14,984.33	Rp 14,984.33
22-Jun-15			0.46	19.1			Rp 14,631.94	Rp 14,631.94
23-Jun-15			0	19.1			Rp 14,631.94	Rp 14,631.94
24-Jun-15			0	19.1			Rp 14,631.94	Rp 14,631.94
25-Jun-15			0	19.1			Rp 14,631.94	Rp 14,631.94
26-Jun-15			0	19.1			Rp 14,631.94	Rp 14,631.94
27-Jun-15			0	19.1			Rp 14,631.94	Rp 14,631.94
28-Jun-15			0	19.1			Rp 14,631.94	Rp 14,631.94
29-Jun-15			0	19.1			Rp 14,631.94	Rp 14,631.94
30-Jun-15			0	19.1			Rp 14,631.94	Rp 14,631.94
1-Jul-15			0	19.1			Rp 14,631.94	Rp 14,631.94
2-Jul-15			0	19.1			Rp 14,631.94	Rp 14,631.94
3-Jul-15			0	19.1			Rp 14,631.94	Rp 14,631.94
4-Jul-15			0	19.1			Rp 14,631.94	Rp 14,631.94
5-Jul-15			0	19.1			Rp 14,631.94	Rp 14,631.94
6-Jul-15			1.1	18			Rp 13,789.26	Rp 13,789.26
7-Jul-15			0	18			Rp 13,789.26	Rp 13,789.26
8-Jul-15			0	18			Rp 13,789.26	Rp 13,789.26
9-Jul-15			0	18			Rp 13,789.26	Rp 13,789.26
10-Jul-15			2.79	15.21			Rp 11,651.92	Rp 11,651.92
11-Jul-15			0	15.21			Rp 11,651.92	Rp 11,651.92
12-Jul-15			0	15.21			Rp 11,651.92	Rp 11,651.92
13-Jul-15			0	15.21			Rp 11,651.92	Rp 11,651.92
14-Jul-15	17.6		2.08	13.13	Rp 131,774.28		Rp 10,058.50	Rp 141,832.78
15-Jul-15		17.6	0	30.73			Rp 23,541.33	Rp 23,541.33
16-Jul-15			0	30.73			Rp 23,541.33	Rp 23,541.33
17-Jul-15			0	30.73			Rp 23,541.33	Rp 23,541.33
18-Jul-15			1.64	29.09			Rp 22,284.98	Rp 22,284.98
19-Jul-15			0	29.09			Rp 22,284.98	Rp 22,284.98
20-Jul-15			0	29.09			Rp 22,284.98	Rp 22,284.98
21-Jul-15			0	29.09			Rp 22,284.98	Rp 22,284.98
22-Jul-15			0	29.09			Rp 22,284.98	Rp 22,284.98

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
23-Jul-15			0	29.09			Rp 22,284.98	Rp 22,284.98
24-Jul-15			0	29.09			Rp 22,284.98	Rp 22,284.98
25-Jul-15			0	29.09			Rp 22,284.98	Rp 22,284.98
26-Jul-15			0	29.09			Rp 22,284.98	Rp 22,284.98
27-Jul-15			0	29.09			Rp 22,284.98	Rp 22,284.98
28-Jul-15			0	29.09			Rp 22,284.98	Rp 22,284.98
29-Jul-15			0	29.09			Rp 22,284.98	Rp 22,284.98
30-Jul-15			0	29.09			Rp 22,284.98	Rp 22,284.98
31-Jul-15			0	29.09			Rp 22,284.98	Rp 22,284.98
1-Aug-15			0	29.09			Rp 22,284.98	Rp 22,284.98
2-Aug-15			0	29.09			Rp 22,284.98	Rp 22,284.98
3-Aug-15			0	29.09			Rp 22,284.98	Rp 22,284.98
4-Aug-15			0	29.09			Rp 22,284.98	Rp 22,284.98
5-Aug-15			0	29.09			Rp 22,284.98	Rp 22,284.98
6-Aug-15			0	29.09			Rp 22,284.98	Rp 22,284.98
7-Aug-15			0	29.09			Rp 22,284.98	Rp 22,284.98
8-Aug-15			0	29.09			Rp 22,284.98	Rp 22,284.98
9-Aug-15			0	29.09			Rp 22,284.98	Rp 22,284.98
10-Aug-15			0	29.09			Rp 22,284.98	Rp 22,284.98
11-Aug-15			0	29.09			Rp 22,284.98	Rp 22,284.98
12-Aug-15			3.96	25.13			Rp 19,251.34	Rp 19,251.34
13-Aug-15			0	25.13			Rp 19,251.34	Rp 19,251.34
14-Aug-15			0	25.13			Rp 19,251.34	Rp 19,251.34
15-Aug-15			0	25.13			Rp 19,251.34	Rp 19,251.34
16-Aug-15			0	25.13			Rp 19,251.34	Rp 19,251.34
17-Aug-15			9.93	15.2			Rp 11,644.26	Rp 11,644.26
18-Aug-15			0	15.2			Rp 11,644.26	Rp 11,644.26
19-Aug-15			0	15.2			Rp 11,644.26	Rp 11,644.26
20-Aug-15			0	15.2			Rp 11,644.26	Rp 11,644.26
21-Aug-15			0	15.2			Rp 11,644.26	Rp 11,644.26
22-Aug-15			0	15.2			Rp 11,644.26	Rp 11,644.26
23-Aug-15			0	15.2			Rp 11,644.26	Rp 11,644.26
24-Aug-15			0	15.2			Rp 11,644.26	Rp 11,644.26
25-Aug-15			0	15.2			Rp 11,644.26	Rp 11,644.26
26-Aug-15			0	15.2			Rp 11,644.26	Rp 11,644.26
27-Aug-15			1.12	14.08			Rp 10,786.27	Rp 10,786.27
28-Aug-15			0	14.08			Rp 10,786.27	Rp 10,786.27
29-Aug-15			0	14.08			Rp 10,786.27	Rp 10,786.27
30-Aug-15			0	14.08			Rp 10,786.27	Rp 10,786.27
31-Aug-15			0	14.08			Rp 10,786.27	Rp 10,786.27
1-Sep-15			3.02	11.06			Rp 8,472.73	Rp 8,472.73
2-Sep-15			0.72	10.34			Rp 7,921.16	Rp 7,921.16
3-Sep-15			3.57	6.77			Rp 5,186.29	Rp 5,186.29
4-Sep-15			0	6.77			Rp 5,186.29	Rp 5,186.29
5-Sep-15			0	6.77			Rp 5,186.29	Rp 5,186.29
6-Sep-15			0	6.77			Rp 5,186.29	Rp 5,186.29
7-Sep-15			0	6.77			Rp 5,186.29	Rp 5,186.29
8-Sep-15			0	6.77			Rp 5,186.29	Rp 5,186.29
9-Sep-15			0	6.77			Rp 5,186.29	Rp 5,186.29
10-Sep-15			0	6.77			Rp 5,186.29	Rp 5,186.29
11-Sep-15			0	6.77			Rp 5,186.29	Rp 5,186.29
12-Sep-15	23.96		0	6.77	Rp 131,774.28		Rp 5,186.29	Rp 136,960.57
13-Sep-15			0.51	6.26			Rp 4,795.60	Rp 4,795.60
14-Sep-15			0	6.26			Rp 4,795.60	Rp 4,795.60
15-Sep-15			0	6.26			Rp 4,795.60	Rp 4,795.60
16-Sep-15			0	6.26			Rp 4,795.60	Rp 4,795.60
17-Sep-15			0	6.26			Rp 4,795.60	Rp 4,795.60
18-Sep-15		23.96	0	30.22			Rp 23,150.64	Rp 23,150.64
19-Sep-15			0	30.22			Rp 23,150.64	Rp 23,150.64
20-Sep-15			0	30.22			Rp 23,150.64	Rp 23,150.64
21-Sep-15			0	30.22			Rp 23,150.64	Rp 23,150.64
22-Sep-15			0	30.22			Rp 23,150.64	Rp 23,150.64
23-Sep-15			0	30.22			Rp 23,150.64	Rp 23,150.64
24-Sep-15			0	30.22			Rp 23,150.64	Rp 23,150.64
25-Sep-15			0	30.22			Rp 23,150.64	Rp 23,150.64
26-Sep-15			0	30.22			Rp 23,150.64	Rp 23,150.64
27-Sep-15			0	30.22			Rp 23,150.64	Rp 23,150.64
28-Sep-15			0	30.22			Rp 23,150.64	Rp 23,150.64
29-Sep-15			0	30.22			Rp 23,150.64	Rp 23,150.64
30-Sep-15			0	30.22			Rp 23,150.64	Rp 23,150.64
1-Oct-15			0	30.22			Rp 23,150.64	Rp 23,150.64
2-Oct-15			0	30.22			Rp 23,150.64	Rp 23,150.64
3-Oct-15			0	30.22			Rp 23,150.64	Rp 23,150.64
4-Oct-15			0	30.22			Rp 23,150.64	Rp 23,150.64

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
5-Oct-15			0	30.22			Rp 23,150.64	Rp 23,150.64
6-Oct-15			0	30.22			Rp 23,150.64	Rp 23,150.64
7-Oct-15			0	30.22			Rp 23,150.64	Rp 23,150.64
8-Oct-15			1.43	28.79			Rp 22,055.16	Rp 22,055.16
9-Oct-15			0	28.79			Rp 22,055.16	Rp 22,055.16
10-Oct-15			0	28.79			Rp 22,055.16	Rp 22,055.16
11-Oct-15			0	28.79			Rp 22,055.16	Rp 22,055.16
12-Oct-15			1.38	27.41			Rp 20,997.98	Rp 20,997.98
13-Oct-15			0	27.41			Rp 20,997.98	Rp 20,997.98
14-Oct-15			0	27.41			Rp 20,997.98	Rp 20,997.98
15-Oct-15			0	27.41			Rp 20,997.98	Rp 20,997.98
16-Oct-15			0	27.41			Rp 20,997.98	Rp 20,997.98
17-Oct-15			0	27.41			Rp 20,997.98	Rp 20,997.98
18-Oct-15			0.64	26.77			Rp 20,507.69	Rp 20,507.69
19-Oct-15			0	26.77			Rp 20,507.69	Rp 20,507.69
20-Oct-15			0	26.77			Rp 20,507.69	Rp 20,507.69
21-Oct-15			0	26.77			Rp 20,507.69	Rp 20,507.69
22-Oct-15			0	26.77			Rp 20,507.69	Rp 20,507.69
23-Oct-15			0	26.77			Rp 20,507.69	Rp 20,507.69
24-Oct-15			0	26.77			Rp 20,507.69	Rp 20,507.69
25-Oct-15			0	26.77			Rp 20,507.69	Rp 20,507.69
26-Oct-15			1.63	25.14			Rp 19,259.00	Rp 19,259.00
27-Oct-15			0	25.14			Rp 19,259.00	Rp 19,259.00
28-Oct-15			0	25.14			Rp 19,259.00	Rp 19,259.00
29-Oct-15			0	25.14			Rp 19,259.00	Rp 19,259.00
30-Oct-15			0	25.14			Rp 19,259.00	Rp 19,259.00
31-Oct-15			0	25.14			Rp 19,259.00	Rp 19,259.00
1-Nov-15			9.42	15.72			Rp 12,042.62	Rp 12,042.62
2-Nov-15			5.07	10.65			Rp 8,158.65	Rp 8,158.65
3-Nov-15			0	10.65			Rp 8,158.65	Rp 8,158.65
4-Nov-15			0	10.65			Rp 8,158.65	Rp 8,158.65
5-Nov-15			0	10.65			Rp 8,158.65	Rp 8,158.65
6-Nov-15			0	10.65			Rp 8,158.65	Rp 8,158.65
7-Nov-15			0	10.65			Rp 8,158.65	Rp 8,158.65
8-Nov-15			0	10.65			Rp 8,158.65	Rp 8,158.65
9-Nov-15			0	10.65			Rp 8,158.65	Rp 8,158.65
10-Nov-15			0	10.65			Rp 8,158.65	Rp 8,158.65
11-Nov-15	20.08		0	10.65	Rp 131,774.28		Rp 8,158.65	Rp 139,932.93
12-Nov-15			0	10.65			Rp 8,158.65	Rp 8,158.65
13-Nov-15			0	10.65			Rp 8,158.65	Rp 8,158.65
14-Nov-15		20.08	0	30.73			Rp 23,541.33	Rp 23,541.33
15-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
16-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
17-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
18-Nov-15			1.74	28.99			Rp 22,208.37	Rp 22,208.37
19-Nov-15			0	28.99			Rp 22,208.37	Rp 22,208.37
20-Nov-15			0	28.99			Rp 22,208.37	Rp 22,208.37
21-Nov-15			0	28.99			Rp 22,208.37	Rp 22,208.37
22-Nov-15			0	28.99			Rp 22,208.37	Rp 22,208.37
23-Nov-15			0	28.99			Rp 22,208.37	Rp 22,208.37
24-Nov-15			0	28.99			Rp 22,208.37	Rp 22,208.37
25-Nov-15			0	28.99			Rp 22,208.37	Rp 22,208.37
26-Nov-15			0	28.99			Rp 22,208.37	Rp 22,208.37
27-Nov-15			0	28.99			Rp 22,208.37	Rp 22,208.37
28-Nov-15			0	28.99			Rp 22,208.37	Rp 22,208.37
29-Nov-15			0	28.99			Rp 22,208.37	Rp 22,208.37
30-Nov-15			0	28.99			Rp 22,208.37	Rp 22,208.37
1-Dec-15			0	28.99			Rp 22,208.37	Rp 22,208.37
2-Dec-15			0	28.99			Rp 22,208.37	Rp 22,208.37
3-Dec-15			0	28.99			Rp 22,208.37	Rp 22,208.37
4-Dec-15			0	28.99			Rp 22,208.37	Rp 22,208.37
5-Dec-15			0	28.99			Rp 22,208.37	Rp 22,208.37
6-Dec-15			0	28.99			Rp 22,208.37	Rp 22,208.37
7-Dec-15			0	28.99			Rp 22,208.37	Rp 22,208.37
8-Dec-15			0	28.99			Rp 22,208.37	Rp 22,208.37
9-Dec-15			0	28.99			Rp 22,208.37	Rp 22,208.37
10-Dec-15			0	28.99			Rp 22,208.37	Rp 22,208.37
11-Dec-15			0	28.99			Rp 22,208.37	Rp 22,208.37
12-Dec-15			0	28.99			Rp 22,208.37	Rp 22,208.37
13-Dec-15			3.67	25.32			Rp 19,396.89	Rp 19,396.89
14-Dec-15			0	25.32			Rp 19,396.89	Rp 19,396.89
15-Dec-15			0	25.32			Rp 19,396.89	Rp 19,396.89
16-Dec-15			0	25.32			Rp 19,396.89	Rp 19,396.89
17-Dec-15			0	25.32			Rp 19,396.89	Rp 19,396.89

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
18-Dec-15			0	25.32			Rp 19,396.89	Rp 19,396.89
19-Dec-15			0	25.32			Rp 19,396.89	Rp 19,396.89
20-Dec-15			0	25.32			Rp 19,396.89	Rp 19,396.89
21-Dec-15			0	25.32			Rp 19,396.89	Rp 19,396.89
22-Dec-15			0	25.32			Rp 19,396.89	Rp 19,396.89
23-Dec-15			0	25.32			Rp 19,396.89	Rp 19,396.89
24-Dec-15			0	25.32			Rp 19,396.89	Rp 19,396.89
25-Dec-15			1.56	23.76			Rp 18,201.82	Rp 18,201.82
26-Dec-15			0	23.76			Rp 18,201.82	Rp 18,201.82
27-Dec-15			0	23.76			Rp 18,201.82	Rp 18,201.82
28-Dec-15			0	23.76			Rp 18,201.82	Rp 18,201.82
29-Dec-15			0	23.76			Rp 18,201.82	Rp 18,201.82
30-Dec-15			0	23.76			Rp 18,201.82	Rp 18,201.82
31-Dec-15			0	23.76			Rp 18,201.82	Rp 18,201.82
								Rp 10,788,318.74

Replication 4

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
3-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
4-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
5-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
6-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
7-Jan-15			1.23	83.52			Rp 63,982.17	Rp 63,982.17
8-Jan-15			0	83.52			Rp 63,982.17	Rp 63,982.17
9-Jan-15			4.9	78.62			Rp 60,228.42	Rp 60,228.42
10-Jan-15			0	78.62			Rp 60,228.42	Rp 60,228.42
11-Jan-15			1.09	77.53			Rp 59,393.41	Rp 59,393.41
12-Jan-15			0	77.53			Rp 59,393.41	Rp 59,393.41
13-Jan-15			0	77.53			Rp 59,393.41	Rp 59,393.41
14-Jan-15			1.91	75.62			Rp 57,930.21	Rp 57,930.21
15-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
16-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
17-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
18-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
19-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
20-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
21-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
22-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
23-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
24-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
25-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
26-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
27-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
28-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
29-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
30-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
31-Jan-15			0	75.62			Rp 57,930.21	Rp 57,930.21
1-Feb-15			0	75.62			Rp 57,930.21	Rp 57,930.21
2-Feb-15			0	75.62			Rp 57,930.21	Rp 57,930.21
3-Feb-15			0	75.62			Rp 57,930.21	Rp 57,930.21
4-Feb-15			0	75.62			Rp 57,930.21	Rp 57,930.21
5-Feb-15			0	75.62			Rp 57,930.21	Rp 57,930.21
6-Feb-15			0	75.62			Rp 57,930.21	Rp 57,930.21
7-Feb-15			0	75.62			Rp 57,930.21	Rp 57,930.21
8-Feb-15			0	75.62			Rp 57,930.21	Rp 57,930.21
9-Feb-15			0	75.62			Rp 57,930.21	Rp 57,930.21
10-Feb-15			0	75.62			Rp 57,930.21	Rp 57,930.21
11-Feb-15			3.94	71.68			Rp 54,911.90	Rp 54,911.90
12-Feb-15			0	71.68			Rp 54,911.90	Rp 54,911.90
13-Feb-15			0	71.68			Rp 54,911.90	Rp 54,911.90
14-Feb-15			0	71.68			Rp 54,911.90	Rp 54,911.90
15-Feb-15			0	71.68			Rp 54,911.90	Rp 54,911.90
16-Feb-15			9.74	61.94			Rp 47,450.38	Rp 47,450.38
17-Feb-15			0	61.94			Rp 47,450.38	Rp 47,450.38
18-Feb-15			1.86	60.08			Rp 46,025.49	Rp 46,025.49
19-Feb-15			0	60.08			Rp 46,025.49	Rp 46,025.49
20-Feb-15			0	60.08			Rp 46,025.49	Rp 46,025.49

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
21-Feb-15			1.92	58.16			Rp 44,554.63	Rp 44,554.63
22-Feb-15			0	58.16			Rp 44,554.63	Rp 44,554.63
23-Feb-15			0	58.16			Rp 44,554.63	Rp 44,554.63
24-Feb-15			0	58.16			Rp 44,554.63	Rp 44,554.63
25-Feb-15			0.41	57.75			Rp 44,240.54	Rp 44,240.54
26-Feb-15			0	57.75			Rp 44,240.54	Rp 44,240.54
27-Feb-15			0	57.75			Rp 44,240.54	Rp 44,240.54
28-Feb-15			0	57.75			Rp 44,240.54	Rp 44,240.54
1-Mar-15			0	57.75			Rp 44,240.54	Rp 44,240.54
2-Mar-15			2.49	55.26			Rp 42,333.03	Rp 42,333.03
3-Mar-15			0	55.26			Rp 42,333.03	Rp 42,333.03
4-Mar-15			0	55.26			Rp 42,333.03	Rp 42,333.03
5-Mar-15			0	55.26			Rp 42,333.03	Rp 42,333.03
6-Mar-15			0	55.26			Rp 42,333.03	Rp 42,333.03
7-Mar-15			0	55.26			Rp 42,333.03	Rp 42,333.03
8-Mar-15			0.2	55.06			Rp 42,179.81	Rp 42,179.81
9-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
10-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
11-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
12-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
13-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
14-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
15-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
16-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
17-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
18-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
19-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
20-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
21-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
22-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
23-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
24-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
25-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
26-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
27-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
28-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
29-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
30-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
31-Mar-15			0	55.06			Rp 42,179.81	Rp 42,179.81
1-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
2-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
3-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
4-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
5-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
6-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
7-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
8-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
9-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
10-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
11-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
12-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
13-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
14-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
15-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
16-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
17-Apr-15			0	55.06			Rp 42,179.81	Rp 42,179.81
18-Apr-15			3.66	51.4			Rp 39,376.00	Rp 39,376.00
19-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
20-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
21-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
22-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
23-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
24-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
25-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
26-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
27-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
28-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
29-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
30-Apr-15			0	51.4			Rp 39,376.00	Rp 39,376.00
1-May-15			1.16	50.24			Rp 38,487.36	Rp 38,487.36
2-May-15			0	50.24			Rp 38,487.36	Rp 38,487.36
3-May-15			0	50.24			Rp 38,487.36	Rp 38,487.36
4-May-15			0	50.24			Rp 38,487.36	Rp 38,487.36
5-May-15			0	50.24			Rp 38,487.36	Rp 38,487.36

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
6-May-15			0	50.24			Rp 38,487.36	Rp 38,487.36
7-May-15			0	50.24			Rp 38,487.36	Rp 38,487.36
8-May-15			2.58	47.66			Rp 36,510.90	Rp 36,510.90
9-May-15			0	47.66			Rp 36,510.90	Rp 36,510.90
10-May-15			2.18	45.48			Rp 34,840.86	Rp 34,840.86
11-May-15			0	45.48			Rp 34,840.86	Rp 34,840.86
12-May-15			0	45.48			Rp 34,840.86	Rp 34,840.86
13-May-15			0.43	45.05			Rp 34,511.45	Rp 34,511.45
14-May-15			0	45.05			Rp 34,511.45	Rp 34,511.45
15-May-15			0	45.05			Rp 34,511.45	Rp 34,511.45
16-May-15			0	45.05			Rp 34,511.45	Rp 34,511.45
17-May-15			0	45.05			Rp 34,511.45	Rp 34,511.45
18-May-15			0	45.05			Rp 34,511.45	Rp 34,511.45
19-May-15			0	45.05			Rp 34,511.45	Rp 34,511.45
20-May-15			0	45.05			Rp 34,511.45	Rp 34,511.45
21-May-15			8.42	36.63			Rp 28,061.14	Rp 28,061.14
22-May-15			0	36.63			Rp 28,061.14	Rp 28,061.14
23-May-15			1.5	35.13			Rp 26,912.04	Rp 26,912.04
24-May-15			0	35.13			Rp 26,912.04	Rp 26,912.04
25-May-15			0	35.13			Rp 26,912.04	Rp 26,912.04
26-May-15			8.14	26.99			Rp 20,676.23	Rp 20,676.23
27-May-15			0	26.99			Rp 20,676.23	Rp 20,676.23
28-May-15			0	26.99			Rp 20,676.23	Rp 20,676.23
29-May-15			0	26.99			Rp 20,676.23	Rp 20,676.23
30-May-15			0	26.99			Rp 20,676.23	Rp 20,676.23
31-May-15			1	25.99			Rp 19,910.16	Rp 19,910.16
1-Jun-15			0	25.99			Rp 19,910.16	Rp 19,910.16
2-Jun-15			0	25.99			Rp 19,910.16	Rp 19,910.16
3-Jun-15			0	25.99			Rp 19,910.16	Rp 19,910.16
4-Jun-15			0	25.99			Rp 19,910.16	Rp 19,910.16
5-Jun-15			1.78	24.21			Rp 18,546.55	Rp 18,546.55
6-Jun-15			0	24.21			Rp 18,546.55	Rp 18,546.55
7-Jun-15			0	24.21			Rp 18,546.55	Rp 18,546.55
8-Jun-15			0	24.21			Rp 18,546.55	Rp 18,546.55
9-Jun-15			1.74	22.47			Rp 17,213.59	Rp 17,213.59
10-Jun-15			0	22.47			Rp 17,213.59	Rp 17,213.59
11-Jun-15			0	22.47			Rp 17,213.59	Rp 17,213.59
12-Jun-15			0	22.47			Rp 17,213.59	Rp 17,213.59
13-Jun-15			0	22.47			Rp 17,213.59	Rp 17,213.59
14-Jun-15	25.57		17.31	5.16	Rp 131,774.28		Rp 3,952.92	Rp 135,727.20
15-Jun-15			0	5.16			Rp 3,952.92	Rp 3,952.92
16-Jun-15			0	5.16			Rp 3,952.92	Rp 3,952.92
17-Jun-15			0	5.16			Rp 3,952.92	Rp 3,952.92
18-Jun-15			1.54	3.62			Rp 2,773.17	Rp 2,773.17
19-Jun-15			0	3.62			Rp 2,773.17	Rp 2,773.17
20-Jun-15			0	3.62			Rp 2,773.17	Rp 2,773.17
21-Jun-15			0	3.62			Rp 2,773.17	Rp 2,773.17
22-Jun-15		25.57	0	29.19			Rp 22,361.58	Rp 22,361.58
23-Jun-15			0	29.19			Rp 22,361.58	Rp 22,361.58
24-Jun-15			0	29.19			Rp 22,361.58	Rp 22,361.58
25-Jun-15			0	29.19			Rp 22,361.58	Rp 22,361.58
26-Jun-15			0	29.19			Rp 22,361.58	Rp 22,361.58
27-Jun-15			0	29.19			Rp 22,361.58	Rp 22,361.58
28-Jun-15			0	29.19			Rp 22,361.58	Rp 22,361.58
29-Jun-15			0	29.19			Rp 22,361.58	Rp 22,361.58
30-Jun-15			0	29.19			Rp 22,361.58	Rp 22,361.58
1-Jul-15			0	29.19			Rp 22,361.58	Rp 22,361.58
2-Jul-15			0	29.19			Rp 22,361.58	Rp 22,361.58
3-Jul-15			0	29.19			Rp 22,361.58	Rp 22,361.58
4-Jul-15			0	29.19			Rp 22,361.58	Rp 22,361.58
5-Jul-15			0	29.19			Rp 22,361.58	Rp 22,361.58
6-Jul-15			0	29.19			Rp 22,361.58	Rp 22,361.58
7-Jul-15			0	29.19			Rp 22,361.58	Rp 22,361.58
8-Jul-15			0	29.19			Rp 22,361.58	Rp 22,361.58
9-Jul-15			0	29.19			Rp 22,361.58	Rp 22,361.58
10-Jul-15			0	29.19			Rp 22,361.58	Rp 22,361.58
11-Jul-15			0	29.19			Rp 22,361.58	Rp 22,361.58
12-Jul-15			0	29.19			Rp 22,361.58	Rp 22,361.58
13-Jul-15			0	29.19			Rp 22,361.58	Rp 22,361.58
14-Jul-15			0	29.19			Rp 22,361.58	Rp 22,361.58
15-Jul-15			0	29.19			Rp 22,361.58	Rp 22,361.58
16-Jul-15			0	29.19			Rp 22,361.58	Rp 22,361.58
17-Jul-15			0	29.19			Rp 22,361.58	Rp 22,361.58
18-Jul-15			2.12	27.07			Rp 20,737.51	Rp 20,737.51

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
19-Jul-15			0	27.07			Rp 20,737.51	Rp 20,737.51
20-Jul-15			0	27.07			Rp 20,737.51	Rp 20,737.51
21-Jul-15			0	27.07			Rp 20,737.51	Rp 20,737.51
22-Jul-15			0	27.07			Rp 20,737.51	Rp 20,737.51
23-Jul-15			9.09	17.98			Rp 13,773.94	Rp 13,773.94
24-Jul-15			0	17.98			Rp 13,773.94	Rp 13,773.94
25-Jul-15			0	17.98			Rp 13,773.94	Rp 13,773.94
26-Jul-15			0.45	17.53			Rp 13,429.21	Rp 13,429.21
27-Jul-15			0	17.53			Rp 13,429.21	Rp 13,429.21
28-Jul-15			0	17.53			Rp 13,429.21	Rp 13,429.21
29-Jul-15			0	17.53			Rp 13,429.21	Rp 13,429.21
30-Jul-15			0	17.53			Rp 13,429.21	Rp 13,429.21
31-Jul-15			0	17.53			Rp 13,429.21	Rp 13,429.21
1-Aug-15			0	17.53			Rp 13,429.21	Rp 13,429.21
2-Aug-15			0	17.53			Rp 13,429.21	Rp 13,429.21
3-Aug-15			0	17.53			Rp 13,429.21	Rp 13,429.21
4-Aug-15			0	17.53			Rp 13,429.21	Rp 13,429.21
5-Aug-15			0	17.53			Rp 13,429.21	Rp 13,429.21
6-Aug-15			0	17.53			Rp 13,429.21	Rp 13,429.21
7-Aug-15			3.92	13.61			Rp 10,426.21	Rp 10,426.21
8-Aug-15			0	13.61			Rp 10,426.21	Rp 10,426.21
9-Aug-15			0	13.61			Rp 10,426.21	Rp 10,426.21
10-Aug-15			0	13.61			Rp 10,426.21	Rp 10,426.21
11-Aug-15			0	13.61			Rp 10,426.21	Rp 10,426.21
12-Aug-15			0	13.61			Rp 10,426.21	Rp 10,426.21
13-Aug-15	17.12		0	13.61	Rp 131,774.28		Rp 10,426.21	Rp 142,200.49
14-Aug-15			0	13.61			Rp 10,426.21	Rp 10,426.21
15-Aug-15		17.12	0	30.73			Rp 23,541.33	Rp 23,541.33
16-Aug-15			0	30.73			Rp 23,541.33	Rp 23,541.33
17-Aug-15			1.45	29.28			Rp 22,430.53	Rp 22,430.53
18-Aug-15			0	29.28			Rp 22,430.53	Rp 22,430.53
19-Aug-15			0	29.28			Rp 22,430.53	Rp 22,430.53
20-Aug-15			3.91	25.37			Rp 19,435.20	Rp 19,435.20
21-Aug-15			9.5	15.87			Rp 12,157.53	Rp 12,157.53
22-Aug-15			0	15.87			Rp 12,157.53	Rp 12,157.53
23-Aug-15			0	15.87			Rp 12,157.53	Rp 12,157.53
24-Aug-15			8.87	7			Rp 5,362.49	Rp 5,362.49
25-Aug-15			0	7			Rp 5,362.49	Rp 5,362.49
26-Aug-15			0	7			Rp 5,362.49	Rp 5,362.49
27-Aug-15			0	7			Rp 5,362.49	Rp 5,362.49
28-Aug-15			0	7			Rp 5,362.49	Rp 5,362.49
29-Aug-15			0	7			Rp 5,362.49	Rp 5,362.49
30-Aug-15			0	7			Rp 5,362.49	Rp 5,362.49
31-Aug-15			0	7			Rp 5,362.49	Rp 5,362.49
1-Sep-15			0	7			Rp 5,362.49	Rp 5,362.49
2-Sep-15			0	7			Rp 5,362.49	Rp 5,362.49
3-Sep-15			0	7			Rp 5,362.49	Rp 5,362.49
4-Sep-15			0	7			Rp 5,362.49	Rp 5,362.49
5-Sep-15			0	7			Rp 5,362.49	Rp 5,362.49
6-Sep-15			0	7			Rp 5,362.49	Rp 5,362.49
7-Sep-15			1.04	5.96			Rp 4,565.78	Rp 4,565.78
8-Sep-15			0	5.96			Rp 4,565.78	Rp 4,565.78
9-Sep-15			0	5.96			Rp 4,565.78	Rp 4,565.78
10-Sep-15			0	5.96			Rp 4,565.78	Rp 4,565.78
11-Sep-15			0.71	5.25			Rp 4,021.87	Rp 4,021.87
12-Sep-15	25.48		0	5.25	Rp 131,774.28		Rp 4,021.87	Rp 135,796.15
13-Sep-15			0	5.25			Rp 4,021.87	Rp 4,021.87
14-Sep-15			0	5.25			Rp 4,021.87	Rp 4,021.87
15-Sep-15			0.71	4.54			Rp 3,477.96	Rp 3,477.96
16-Sep-15			0	4.54			Rp 3,477.96	Rp 3,477.96
17-Sep-15			0	4.54			Rp 3,477.96	Rp 3,477.96
18-Sep-15			0	4.54			Rp 3,477.96	Rp 3,477.96
19-Sep-15			0	4.54			Rp 3,477.96	Rp 3,477.96
20-Sep-15		25.48	0	30.02			Rp 22,997.42	Rp 22,997.42
21-Sep-15			0	30.02			Rp 22,997.42	Rp 22,997.42
22-Sep-15			0.92	29.1			Rp 22,292.64	Rp 22,292.64
23-Sep-15			3.17	25.93			Rp 19,864.20	Rp 19,864.20
24-Sep-15			0	25.93			Rp 19,864.20	Rp 19,864.20
25-Sep-15			0	25.93			Rp 19,864.20	Rp 19,864.20
26-Sep-15			0	25.93			Rp 19,864.20	Rp 19,864.20
27-Sep-15			0	25.93			Rp 19,864.20	Rp 19,864.20
28-Sep-15			0	25.93			Rp 19,864.20	Rp 19,864.20
29-Sep-15			0	25.93			Rp 19,864.20	Rp 19,864.20
30-Sep-15			0	25.93			Rp 19,864.20	Rp 19,864.20

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
1-Oct-15			3.63	22.3			Rp 17,083.36	Rp 17,083.36
2-Oct-15			0	22.3			Rp 17,083.36	Rp 17,083.36
3-Oct-15			0	22.3			Rp 17,083.36	Rp 17,083.36
4-Oct-15			2.37	19.93			Rp 15,267.78	Rp 15,267.78
5-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
6-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
7-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
8-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
9-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
10-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
11-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
12-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
13-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
14-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
15-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
16-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
17-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
18-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
19-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
20-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
21-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
22-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
23-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
24-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
25-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
26-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
27-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
28-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
29-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
30-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
31-Oct-15			0	19.93			Rp 15,267.78	Rp 15,267.78
1-Nov-15			0	19.93			Rp 15,267.78	Rp 15,267.78
2-Nov-15			0	19.93			Rp 15,267.78	Rp 15,267.78
3-Nov-15			0	19.93			Rp 15,267.78	Rp 15,267.78
4-Nov-15			0	19.93			Rp 15,267.78	Rp 15,267.78
5-Nov-15			0	19.93			Rp 15,267.78	Rp 15,267.78
6-Nov-15			0	19.93			Rp 15,267.78	Rp 15,267.78
7-Nov-15			0	19.93			Rp 15,267.78	Rp 15,267.78
8-Nov-15			0	19.93			Rp 15,267.78	Rp 15,267.78
9-Nov-15			0	19.93			Rp 15,267.78	Rp 15,267.78
10-Nov-15			0	19.93			Rp 15,267.78	Rp 15,267.78
11-Nov-15			0	19.93			Rp 15,267.78	Rp 15,267.78
12-Nov-15			0	19.93			Rp 15,267.78	Rp 15,267.78
13-Nov-15			0	19.93			Rp 15,267.78	Rp 15,267.78
14-Nov-15			0	19.93			Rp 15,267.78	Rp 15,267.78
15-Nov-15			1.01	18.92			Rp 14,494.04	Rp 14,494.04
16-Nov-15			0	18.92			Rp 14,494.04	Rp 14,494.04
17-Nov-15			16.38	2.54			Rp 1,945.82	Rp 1,945.82
18-Nov-15			0	2.54			Rp 1,945.82	Rp 1,945.82
19-Nov-15			0	2.54			Rp 1,945.82	Rp 1,945.82
20-Nov-15			0	2.54			Rp 1,945.82	Rp 1,945.82
21-Nov-15			0	2.54			Rp 1,945.82	Rp 1,945.82
22-Nov-15			0	2.54			Rp 1,945.82	Rp 1,945.82
23-Nov-15			0	2.54			Rp 1,945.82	Rp 1,945.82
24-Nov-15			0	2.54			Rp 1,945.82	Rp 1,945.82
25-Nov-15			0	2.54			Rp 1,945.82	Rp 1,945.82
26-Nov-15			1.05	1.49			Rp 1,141.44	Rp 1,141.44
27-Nov-15			0.61	0.88			Rp 674.14	Rp 674.14
28-Nov-15			0	0.88			Rp 674.14	Rp 674.14
29-Nov-15			0	0.88			Rp 674.14	Rp 674.14
30-Nov-15			0	0.88			Rp 674.14	Rp 674.14
1-Dec-15			0	0.88			Rp 674.14	Rp 674.14
2-Dec-15			7.8	-6.92		Rp 1,556,301.60	Rp 674.14	Rp 1,556,975.74
3-Dec-15			0	0.88			Rp 674.14	Rp 674.14
4-Dec-15			0	0.88			Rp 674.14	Rp 674.14
5-Dec-15			0	0.88			Rp 674.14	Rp 674.14
6-Dec-15			0	0.88			Rp 674.14	Rp 674.14
7-Dec-15			8.77	-7.89		Rp 1,556,301.60	Rp 674.14	Rp 1,556,975.74
8-Dec-15			2.78	-1.9		Rp 1,556,301.60	Rp 674.14	Rp 1,556,975.74
9-Dec-15			0	0.88			Rp 674.14	Rp 674.14
10-Dec-15			0	0.88			Rp 674.14	Rp 674.14
11-Dec-15	29.85		0	0.88	Rp 131,774.28		Rp 674.14	Rp 132,448.42
12-Dec-15			0	0.88			Rp 674.14	Rp 674.14
13-Dec-15			0	0.88			Rp 674.14	Rp 674.14

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
14-Dec-15		29.85	0	30.73			Rp 23,541.33	Rp 23,541.33
15-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33
16-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33
17-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33
18-Dec-15			0.79	29.94			Rp 22,936.14	Rp 22,936.14
19-Dec-15			0	29.94			Rp 22,936.14	Rp 22,936.14
20-Dec-15			0	29.94			Rp 22,936.14	Rp 22,936.14
21-Dec-15			0	29.94			Rp 22,936.14	Rp 22,936.14
22-Dec-15			0	29.94			Rp 22,936.14	Rp 22,936.14
23-Dec-15			0	29.94			Rp 22,936.14	Rp 22,936.14
24-Dec-15			0	29.94			Rp 22,936.14	Rp 22,936.14
25-Dec-15			17.29	12.65			Rp 9,690.79	Rp 9,690.79
26-Dec-15			0	12.65			Rp 9,690.79	Rp 9,690.79
27-Dec-15			0	12.65			Rp 9,690.79	Rp 9,690.79
28-Dec-15			0	12.65			Rp 9,690.79	Rp 9,690.79
29-Dec-15			0	12.65			Rp 9,690.79	Rp 9,690.79
30-Dec-15			0	12.65			Rp 9,690.79	Rp 9,690.79
31-Dec-15			0	12.65			Rp 9,690.79	Rp 9,690.79
							Rp	14,920,754.96

Replication 5

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
3-Jan-15			6.11	78.64			Rp 60,243.74	Rp 60,243.74
4-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
5-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
6-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
7-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
8-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
9-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
10-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
11-Jan-15			0	78.64			Rp 60,243.74	Rp 60,243.74
12-Jan-15			8.43	70.21			Rp 53,785.77	Rp 53,785.77
13-Jan-15			0	70.21			Rp 53,785.77	Rp 53,785.77
14-Jan-15			0	70.21			Rp 53,785.77	Rp 53,785.77
15-Jan-15			0	70.21			Rp 53,785.77	Rp 53,785.77
16-Jan-15			0	70.21			Rp 53,785.77	Rp 53,785.77
17-Jan-15			0	70.21			Rp 53,785.77	Rp 53,785.77
18-Jan-15			0	70.21			Rp 53,785.77	Rp 53,785.77
19-Jan-15			0.84	69.37			Rp 53,142.28	Rp 53,142.28
20-Jan-15			0	69.37			Rp 53,142.28	Rp 53,142.28
21-Jan-15			2.63	66.74			Rp 51,127.51	Rp 51,127.51
22-Jan-15			0	66.74			Rp 51,127.51	Rp 51,127.51
23-Jan-15			0	66.74			Rp 51,127.51	Rp 51,127.51
24-Jan-15			0	66.74			Rp 51,127.51	Rp 51,127.51
25-Jan-15			0	66.74			Rp 51,127.51	Rp 51,127.51
26-Jan-15			0	66.74			Rp 51,127.51	Rp 51,127.51
27-Jan-15			0	66.74			Rp 51,127.51	Rp 51,127.51
28-Jan-15			18.74	48			Rp 36,771.36	Rp 36,771.36
29-Jan-15			0	48			Rp 36,771.36	Rp 36,771.36
30-Jan-15			0.27	47.73			Rp 36,564.52	Rp 36,564.52
31-Jan-15			0	47.73			Rp 36,564.52	Rp 36,564.52
1-Feb-15			1.73	46			Rp 35,239.22	Rp 35,239.22
2-Feb-15			0	46			Rp 35,239.22	Rp 35,239.22
3-Feb-15			0	46			Rp 35,239.22	Rp 35,239.22
4-Feb-15			0	46			Rp 35,239.22	Rp 35,239.22
5-Feb-15			0	46			Rp 35,239.22	Rp 35,239.22
6-Feb-15			0.62	45.38			Rp 34,764.26	Rp 34,764.26
7-Feb-15			0	45.38			Rp 34,764.26	Rp 34,764.26
8-Feb-15			1.97	43.41			Rp 33,255.10	Rp 33,255.10
9-Feb-15			0	43.41			Rp 33,255.10	Rp 33,255.10
10-Feb-15			0	43.41			Rp 33,255.10	Rp 33,255.10
11-Feb-15			3.43	39.98			Rp 30,627.48	Rp 30,627.48
12-Feb-15			0	39.98			Rp 30,627.48	Rp 30,627.48
13-Feb-15			0	39.98			Rp 30,627.48	Rp 30,627.48
14-Feb-15			1.87	38.11			Rp 29,194.93	Rp 29,194.93
15-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
16-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
17-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
18-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
19-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
20-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
21-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
22-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
23-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
24-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
25-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
26-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
27-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
28-Feb-15			0	38.11			Rp 29,194.93	Rp 29,194.93
1-Mar-15			0	38.11			Rp 29,194.93	Rp 29,194.93
2-Mar-15			0.04	38.07			Rp 29,164.28	Rp 29,164.28
3-Mar-15			0	38.07			Rp 29,164.28	Rp 29,164.28
4-Mar-15			0	38.07			Rp 29,164.28	Rp 29,164.28
5-Mar-15			0	38.07			Rp 29,164.28	Rp 29,164.28
6-Mar-15			0	38.07			Rp 29,164.28	Rp 29,164.28
7-Mar-15			0	38.07			Rp 29,164.28	Rp 29,164.28
8-Mar-15			0	38.07			Rp 29,164.28	Rp 29,164.28
9-Mar-15			0	38.07			Rp 29,164.28	Rp 29,164.28
10-Mar-15			0	38.07			Rp 29,164.28	Rp 29,164.28
11-Mar-15			0	38.07			Rp 29,164.28	Rp 29,164.28
12-Mar-15			0	38.07			Rp 29,164.28	Rp 29,164.28
13-Mar-15			0	38.07			Rp 29,164.28	Rp 29,164.28
14-Mar-15			3.45	34.62			Rp 26,521.34	Rp 26,521.34
15-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
16-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
17-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
18-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
19-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
20-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
21-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
22-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
23-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
24-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
25-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
26-Mar-15			0	34.62			Rp 26,521.34	Rp 26,521.34
27-Mar-15			4.43	30.19			Rp 23,127.65	Rp 23,127.65
28-Mar-15			0	30.19			Rp 23,127.65	Rp 23,127.65
29-Mar-15			0	30.19			Rp 23,127.65	Rp 23,127.65
30-Mar-15			0	30.19			Rp 23,127.65	Rp 23,127.65
31-Mar-15			0	30.19			Rp 23,127.65	Rp 23,127.65
1-Apr-15			0	30.19			Rp 23,127.65	Rp 23,127.65
2-Apr-15			1.38	28.81			Rp 22,070.48	Rp 22,070.48
3-Apr-15			0	28.81			Rp 22,070.48	Rp 22,070.48
4-Apr-15			0	28.81			Rp 22,070.48	Rp 22,070.48
5-Apr-15			0	28.81			Rp 22,070.48	Rp 22,070.48
6-Apr-15			8.33	20.48			Rp 15,689.11	Rp 15,689.11
7-Apr-15			0	20.48			Rp 15,689.11	Rp 15,689.11
8-Apr-15			0	20.48			Rp 15,689.11	Rp 15,689.11
9-Apr-15			0	20.48			Rp 15,689.11	Rp 15,689.11
10-Apr-15			0	20.48			Rp 15,689.11	Rp 15,689.11
11-Apr-15			2.66	17.82			Rp 13,651.37	Rp 13,651.37
12-Apr-15			0	17.82			Rp 13,651.37	Rp 13,651.37
13-Apr-15			0	17.82			Rp 13,651.37	Rp 13,651.37
14-Apr-15			0	17.82			Rp 13,651.37	Rp 13,651.37
15-Apr-15	12.91		0	17.82	Rp 131,774.28		Rp 13,651.37	Rp 145,425.65
16-Apr-15		12.91	0	30.73			Rp 23,541.33	Rp 23,541.33
17-Apr-15			3.66	27.07			Rp 20,737.51	Rp 20,737.51
18-Apr-15			0	27.07			Rp 20,737.51	Rp 20,737.51
19-Apr-15			1.4	25.67			Rp 19,665.02	Rp 19,665.02
20-Apr-15			0	25.67			Rp 19,665.02	Rp 19,665.02
21-Apr-15			0	25.67			Rp 19,665.02	Rp 19,665.02
22-Apr-15			0	25.67			Rp 19,665.02	Rp 19,665.02
23-Apr-15			0	25.67			Rp 19,665.02	Rp 19,665.02
24-Apr-15			0	25.67			Rp 19,665.02	Rp 19,665.02
25-Apr-15			0	25.67			Rp 19,665.02	Rp 19,665.02
26-Apr-15			0	25.67			Rp 19,665.02	Rp 19,665.02
27-Apr-15			0	25.67			Rp 19,665.02	Rp 19,665.02
28-Apr-15			0	25.67			Rp 19,665.02	Rp 19,665.02
29-Apr-15			0	25.67			Rp 19,665.02	Rp 19,665.02
30-Apr-15			1.48	24.19			Rp 18,531.23	Rp 18,531.23
1-May-15			0	24.19			Rp 18,531.23	Rp 18,531.23

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
2-May-15			0	24.19			Rp 18,531.23	Rp 18,531.23
3-May-15			0	24.19			Rp 18,531.23	Rp 18,531.23
4-May-15			0	24.19			Rp 18,531.23	Rp 18,531.23
5-May-15			0	24.19			Rp 18,531.23	Rp 18,531.23
6-May-15			0	24.19			Rp 18,531.23	Rp 18,531.23
7-May-15			1.11	23.08			Rp 17,680.90	Rp 17,680.90
8-May-15			0	23.08			Rp 17,680.90	Rp 17,680.90
9-May-15			0	23.08			Rp 17,680.90	Rp 17,680.90
10-May-15			0	23.08			Rp 17,680.90	Rp 17,680.90
11-May-15			0	23.08			Rp 17,680.90	Rp 17,680.90
12-May-15			0	23.08			Rp 17,680.90	Rp 17,680.90
13-May-15			0	23.08			Rp 17,680.90	Rp 17,680.90
14-May-15			0	23.08			Rp 17,680.90	Rp 17,680.90
15-May-15			0	23.08			Rp 17,680.90	Rp 17,680.90
16-May-15			1.92	21.16			Rp 16,210.04	Rp 16,210.04
17-May-15			0	21.16			Rp 16,210.04	Rp 16,210.04
18-May-15			0	21.16			Rp 16,210.04	Rp 16,210.04
19-May-15			0	21.16			Rp 16,210.04	Rp 16,210.04
20-May-15			0	21.16			Rp 16,210.04	Rp 16,210.04
21-May-15			0	21.16			Rp 16,210.04	Rp 16,210.04
22-May-15			0	21.16			Rp 16,210.04	Rp 16,210.04
23-May-15			0	21.16			Rp 16,210.04	Rp 16,210.04
24-May-15			0	21.16			Rp 16,210.04	Rp 16,210.04
25-May-15			0	21.16			Rp 16,210.04	Rp 16,210.04
26-May-15			1.89	19.27			Rp 14,762.17	Rp 14,762.17
27-May-15			2.07	17.2			Rp 13,176.40	Rp 13,176.40
28-May-15			0	17.2			Rp 13,176.40	Rp 13,176.40
29-May-15			0	17.2			Rp 13,176.40	Rp 13,176.40
30-May-15			0	17.2			Rp 13,176.40	Rp 13,176.40
31-May-15			0	17.2			Rp 13,176.40	Rp 13,176.40
1-Jun-15			0	17.2			Rp 13,176.40	Rp 13,176.40
2-Jun-15			0	17.2			Rp 13,176.40	Rp 13,176.40
3-Jun-15			0	17.2			Rp 13,176.40	Rp 13,176.40
4-Jun-15			0	17.2			Rp 13,176.40	Rp 13,176.40
5-Jun-15			0	17.2			Rp 13,176.40	Rp 13,176.40
6-Jun-15			0	17.2			Rp 13,176.40	Rp 13,176.40
7-Jun-15			0	17.2			Rp 13,176.40	Rp 13,176.40
8-Jun-15			0	17.2			Rp 13,176.40	Rp 13,176.40
9-Jun-15			0	17.2			Rp 13,176.40	Rp 13,176.40
10-Jun-15			0	17.2			Rp 13,176.40	Rp 13,176.40
11-Jun-15			0	17.2			Rp 13,176.40	Rp 13,176.40
12-Jun-15			0	17.2			Rp 13,176.40	Rp 13,176.40
13-Jun-15			0	17.2			Rp 13,176.40	Rp 13,176.40
14-Jun-15	13.53		0	17.2	Rp 131,774.28		Rp 13,176.40	Rp 144,950.68
15-Jun-15			0	17.2			Rp 13,176.40	Rp 13,176.40
16-Jun-15			0	17.2			Rp 13,176.40	Rp 13,176.40
17-Jun-15			0	17.2			Rp 13,176.40	Rp 13,176.40
18-Jun-15			0	17.2			Rp 13,176.40	Rp 13,176.40
19-Jun-15			0	17.2			Rp 13,176.40	Rp 13,176.40
20-Jun-15			0	17.2			Rp 13,176.40	Rp 13,176.40
21-Jun-15			0	17.2			Rp 13,176.40	Rp 13,176.40
22-Jun-15		13.53	0	30.73			Rp 23,541.33	Rp 23,541.33
23-Jun-15			0	30.73			Rp 23,541.33	Rp 23,541.33
24-Jun-15			0	30.73			Rp 23,541.33	Rp 23,541.33
25-Jun-15			0	30.73			Rp 23,541.33	Rp 23,541.33
26-Jun-15			0	30.73			Rp 23,541.33	Rp 23,541.33
27-Jun-15			0	30.73			Rp 23,541.33	Rp 23,541.33
28-Jun-15			0	30.73			Rp 23,541.33	Rp 23,541.33
29-Jun-15			4.15	26.58			Rp 20,362.14	Rp 20,362.14
30-Jun-15			0	26.58			Rp 20,362.14	Rp 20,362.14
1-Jul-15			0	26.58			Rp 20,362.14	Rp 20,362.14
2-Jul-15			0	26.58			Rp 20,362.14	Rp 20,362.14
3-Jul-15			0	26.58			Rp 20,362.14	Rp 20,362.14
4-Jul-15			0	26.58			Rp 20,362.14	Rp 20,362.14
5-Jul-15			0	26.58			Rp 20,362.14	Rp 20,362.14
6-Jul-15			0	26.58			Rp 20,362.14	Rp 20,362.14
7-Jul-15			0	26.58			Rp 20,362.14	Rp 20,362.14
8-Jul-15			0	26.58			Rp 20,362.14	Rp 20,362.14
9-Jul-15			0	26.58			Rp 20,362.14	Rp 20,362.14
10-Jul-15			0	26.58			Rp 20,362.14	Rp 20,362.14
11-Jul-15			0	26.58			Rp 20,362.14	Rp 20,362.14
12-Jul-15			0	26.58			Rp 20,362.14	Rp 20,362.14
13-Jul-15			0	26.58			Rp 20,362.14	Rp 20,362.14
14-Jul-15			0	26.58			Rp 20,362.14	Rp 20,362.14

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
15-Jul-15			0	26.58			Rp 20,362.14	Rp 20,362.14
16-Jul-15			0	26.58			Rp 20,362.14	Rp 20,362.14
17-Jul-15			0	26.58			Rp 20,362.14	Rp 20,362.14
18-Jul-15			3.3	23.28			Rp 17,834.11	Rp 17,834.11
19-Jul-15			0	23.28			Rp 17,834.11	Rp 17,834.11
20-Jul-15			0	23.28			Rp 17,834.11	Rp 17,834.11
21-Jul-15			0	23.28			Rp 17,834.11	Rp 17,834.11
22-Jul-15			0.46	22.82			Rp 17,481.72	Rp 17,481.72
23-Jul-15			0	22.82			Rp 17,481.72	Rp 17,481.72
24-Jul-15			3.58	19.24			Rp 14,739.19	Rp 14,739.19
25-Jul-15			0	19.24			Rp 14,739.19	Rp 14,739.19
26-Jul-15			0	19.24			Rp 14,739.19	Rp 14,739.19
27-Jul-15			0	19.24			Rp 14,739.19	Rp 14,739.19
28-Jul-15			0	19.24			Rp 14,739.19	Rp 14,739.19
29-Jul-15			0	19.24			Rp 14,739.19	Rp 14,739.19
30-Jul-15			0	19.24			Rp 14,739.19	Rp 14,739.19
31-Jul-15			0	19.24			Rp 14,739.19	Rp 14,739.19
1-Aug-15			0	19.24			Rp 14,739.19	Rp 14,739.19
2-Aug-15			0	19.24			Rp 14,739.19	Rp 14,739.19
3-Aug-15			0	19.24			Rp 14,739.19	Rp 14,739.19
4-Aug-15			6.63	12.61			Rp 9,660.14	Rp 9,660.14
5-Aug-15			0	12.61			Rp 9,660.14	Rp 9,660.14
6-Aug-15			0	12.61			Rp 9,660.14	Rp 9,660.14
7-Aug-15			0	12.61			Rp 9,660.14	Rp 9,660.14
8-Aug-15			0	12.61			Rp 9,660.14	Rp 9,660.14
9-Aug-15			0.64	11.97			Rp 9,169.86	Rp 9,169.86
10-Aug-15			0	11.97			Rp 9,169.86	Rp 9,169.86
11-Aug-15			0	11.97			Rp 9,169.86	Rp 9,169.86
12-Aug-15			3.96	8.01			Rp 6,136.22	Rp 6,136.22
13-Aug-15	22.72		0	8.01	Rp 131,774.28		Rp 6,136.22	Rp 137,910.50
14-Aug-15			0	8.01			Rp 6,136.22	Rp 6,136.22
15-Aug-15			0.54	7.47			Rp 5,722.54	Rp 5,722.54
16-Aug-15			0.68	6.79			Rp 5,201.62	Rp 5,201.62
17-Aug-15		22.72	0	29.51			Rp 22,606.73	Rp 22,606.73
18-Aug-15			0	29.51			Rp 22,606.73	Rp 22,606.73
19-Aug-15			0	29.51			Rp 22,606.73	Rp 22,606.73
20-Aug-15			9.41	20.1			Rp 15,398.01	Rp 15,398.01
21-Aug-15			0	20.1			Rp 15,398.01	Rp 15,398.01
22-Aug-15			0	20.1			Rp 15,398.01	Rp 15,398.01
23-Aug-15			0	20.1			Rp 15,398.01	Rp 15,398.01
24-Aug-15			0	20.1			Rp 15,398.01	Rp 15,398.01
25-Aug-15			0	20.1			Rp 15,398.01	Rp 15,398.01
26-Aug-15			0	20.1			Rp 15,398.01	Rp 15,398.01
27-Aug-15			0	20.1			Rp 15,398.01	Rp 15,398.01
28-Aug-15			0	20.1			Rp 15,398.01	Rp 15,398.01
29-Aug-15			0.21	19.89			Rp 15,237.13	Rp 15,237.13
30-Aug-15			0	19.89			Rp 15,237.13	Rp 15,237.13
31-Aug-15			0	19.89			Rp 15,237.13	Rp 15,237.13
1-Sep-15			0	19.89			Rp 15,237.13	Rp 15,237.13
2-Sep-15			0	19.89			Rp 15,237.13	Rp 15,237.13
3-Sep-15			0	19.89			Rp 15,237.13	Rp 15,237.13
4-Sep-15			0	19.89			Rp 15,237.13	Rp 15,237.13
5-Sep-15			0	19.89			Rp 15,237.13	Rp 15,237.13
6-Sep-15			0	19.89			Rp 15,237.13	Rp 15,237.13
7-Sep-15			0	19.89			Rp 15,237.13	Rp 15,237.13
8-Sep-15			0	19.89			Rp 15,237.13	Rp 15,237.13
9-Sep-15			0	19.89			Rp 15,237.13	Rp 15,237.13
10-Sep-15			0	19.89			Rp 15,237.13	Rp 15,237.13
11-Sep-15			0	19.89			Rp 15,237.13	Rp 15,237.13
12-Sep-15			0	19.89			Rp 15,237.13	Rp 15,237.13
13-Sep-15			0	19.89			Rp 15,237.13	Rp 15,237.13
14-Sep-15			0	19.89			Rp 15,237.13	Rp 15,237.13
15-Sep-15			0	19.89			Rp 15,237.13	Rp 15,237.13
16-Sep-15			0	19.89			Rp 15,237.13	Rp 15,237.13
17-Sep-15			0	19.89			Rp 15,237.13	Rp 15,237.13
18-Sep-15			0	19.89			Rp 15,237.13	Rp 15,237.13
19-Sep-15			0	19.89			Rp 15,237.13	Rp 15,237.13
20-Sep-15			0	19.89			Rp 15,237.13	Rp 15,237.13
21-Sep-15			0.37	19.52			Rp 14,953.69	Rp 14,953.69
22-Sep-15			0	19.52			Rp 14,953.69	Rp 14,953.69
23-Sep-15			0	19.52			Rp 14,953.69	Rp 14,953.69
24-Sep-15			7.58	11.94			Rp 9,146.88	Rp 9,146.88
25-Sep-15			0	11.94			Rp 9,146.88	Rp 9,146.88
26-Sep-15			0	11.94			Rp 9,146.88	Rp 9,146.88

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
27-Sep-15			0	11.94			Rp 9,146.88	Rp 9,146.88
28-Sep-15			0	11.94			Rp 9,146.88	Rp 9,146.88
29-Sep-15			0	11.94			Rp 9,146.88	Rp 9,146.88
30-Sep-15			0	11.94			Rp 9,146.88	Rp 9,146.88
1-Oct-15			0	11.94			Rp 9,146.88	Rp 9,146.88
2-Oct-15			1.13	10.81			Rp 8,281.22	Rp 8,281.22
3-Oct-15			0	10.81			Rp 8,281.22	Rp 8,281.22
4-Oct-15			0	10.81			Rp 8,281.22	Rp 8,281.22
5-Oct-15			0	10.81			Rp 8,281.22	Rp 8,281.22
6-Oct-15			0	10.81			Rp 8,281.22	Rp 8,281.22
7-Oct-15			0	10.81			Rp 8,281.22	Rp 8,281.22
8-Oct-15			0	10.81			Rp 8,281.22	Rp 8,281.22
9-Oct-15			0	10.81			Rp 8,281.22	Rp 8,281.22
10-Oct-15			0	10.81			Rp 8,281.22	Rp 8,281.22
11-Oct-15			0	10.81			Rp 8,281.22	Rp 8,281.22
12-Oct-15	19.92		0	10.81	Rp 131,774.28		Rp 8,281.22	Rp 140,055.50
13-Oct-15			0	10.81			Rp 8,281.22	Rp 8,281.22
14-Oct-15		19.92	3.27	27.46			Rp 21,036.28	Rp 21,036.28
15-Oct-15			0	27.46			Rp 21,036.28	Rp 21,036.28
16-Oct-15			0	27.46			Rp 21,036.28	Rp 21,036.28
17-Oct-15			0	27.46			Rp 21,036.28	Rp 21,036.28
18-Oct-15			9.93	17.53			Rp 13,429.21	Rp 13,429.21
19-Oct-15			0	17.53			Rp 13,429.21	Rp 13,429.21
20-Oct-15			0	17.53			Rp 13,429.21	Rp 13,429.21
21-Oct-15			0	17.53			Rp 13,429.21	Rp 13,429.21
22-Oct-15			0	17.53			Rp 13,429.21	Rp 13,429.21
23-Oct-15			0	17.53			Rp 13,429.21	Rp 13,429.21
24-Oct-15			0.39	17.14			Rp 13,130.44	Rp 13,130.44
25-Oct-15			0	17.14			Rp 13,130.44	Rp 13,130.44
26-Oct-15			0	17.14			Rp 13,130.44	Rp 13,130.44
27-Oct-15			0	17.14			Rp 13,130.44	Rp 13,130.44
28-Oct-15			0	17.14			Rp 13,130.44	Rp 13,130.44
29-Oct-15			0	17.14			Rp 13,130.44	Rp 13,130.44
30-Oct-15			0	17.14			Rp 13,130.44	Rp 13,130.44
31-Oct-15			0	17.14			Rp 13,130.44	Rp 13,130.44
1-Nov-15			0	17.14			Rp 13,130.44	Rp 13,130.44
2-Nov-15			0	17.14			Rp 13,130.44	Rp 13,130.44
3-Nov-15			0	17.14			Rp 13,130.44	Rp 13,130.44
4-Nov-15			0	17.14			Rp 13,130.44	Rp 13,130.44
5-Nov-15			0	17.14			Rp 13,130.44	Rp 13,130.44
6-Nov-15			0	17.14			Rp 13,130.44	Rp 13,130.44
7-Nov-15			0	17.14			Rp 13,130.44	Rp 13,130.44
8-Nov-15			0	17.14			Rp 13,130.44	Rp 13,130.44
9-Nov-15			0.44	16.7			Rp 12,793.37	Rp 12,793.37
10-Nov-15			0	16.7			Rp 12,793.37	Rp 12,793.37
11-Nov-15	14.03		0	16.7	Rp 131,774.28		Rp 12,793.37	Rp 144,567.65
12-Nov-15			0	16.7			Rp 12,793.37	Rp 12,793.37
13-Nov-15		14.03	0	30.73			Rp 23,541.33	Rp 23,541.33
14-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
15-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
16-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
17-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
18-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
19-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
20-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
21-Nov-15			0.94	29.79			Rp 22,821.23	Rp 22,821.23
22-Nov-15			0	29.79			Rp 22,821.23	Rp 22,821.23
23-Nov-15			0	29.79			Rp 22,821.23	Rp 22,821.23
24-Nov-15			0	29.79			Rp 22,821.23	Rp 22,821.23
25-Nov-15			0	29.79			Rp 22,821.23	Rp 22,821.23
26-Nov-15			0	29.79			Rp 22,821.23	Rp 22,821.23
27-Nov-15			0	29.79			Rp 22,821.23	Rp 22,821.23
28-Nov-15			0	29.79			Rp 22,821.23	Rp 22,821.23
29-Nov-15			0	29.79			Rp 22,821.23	Rp 22,821.23
30-Nov-15			0	29.79			Rp 22,821.23	Rp 22,821.23
1-Dec-15			0	29.79			Rp 22,821.23	Rp 22,821.23
2-Dec-15			0	29.79			Rp 22,821.23	Rp 22,821.23
3-Dec-15			0	29.79			Rp 22,821.23	Rp 22,821.23
4-Dec-15			0	29.79			Rp 22,821.23	Rp 22,821.23
5-Dec-15			0	29.79			Rp 22,821.23	Rp 22,821.23
6-Dec-15			0	29.79			Rp 22,821.23	Rp 22,821.23
7-Dec-15			0	29.79			Rp 22,821.23	Rp 22,821.23
8-Dec-15			5.03	24.76			Rp 18,967.89	Rp 18,967.89
9-Dec-15			0	24.76			Rp 18,967.89	Rp 18,967.89

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
10-Dec-15			0	24.76			Rp 18,967.89	Rp 18,967.89
11-Dec-15			0	24.76			Rp 18,967.89	Rp 18,967.89
12-Dec-15			0	24.76			Rp 18,967.89	Rp 18,967.89
13-Dec-15			0	24.76			Rp 18,967.89	Rp 18,967.89
14-Dec-15			0	24.76			Rp 18,967.89	Rp 18,967.89
15-Dec-15			0	24.76			Rp 18,967.89	Rp 18,967.89
16-Dec-15			0	24.76			Rp 18,967.89	Rp 18,967.89
17-Dec-15			0	24.76			Rp 18,967.89	Rp 18,967.89
18-Dec-15			1.09	23.67			Rp 18,132.88	Rp 18,132.88
19-Dec-15			0	23.67			Rp 18,132.88	Rp 18,132.88
20-Dec-15			0	23.67			Rp 18,132.88	Rp 18,132.88
21-Dec-15			0	23.67			Rp 18,132.88	Rp 18,132.88
22-Dec-15			0	23.67			Rp 18,132.88	Rp 18,132.88
23-Dec-15			0	23.67			Rp 18,132.88	Rp 18,132.88
24-Dec-15			0	23.67			Rp 18,132.88	Rp 18,132.88
25-Dec-15			0.02	23.65			Rp 18,117.56	Rp 18,117.56
26-Dec-15			0.64	23.01			Rp 17,627.27	Rp 17,627.27
27-Dec-15			0	23.01			Rp 17,627.27	Rp 17,627.27
28-Dec-15			2.58	20.43			Rp 15,650.81	Rp 15,650.81
29-Dec-15			0	20.43			Rp 15,650.81	Rp 15,650.81
30-Dec-15			0	20.43			Rp 15,650.81	Rp 15,650.81
31-Dec-15			0	20.43			Rp 15,650.81	Rp 15,650.81
								Rp 8,580,173.09

Replication 6

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
3-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
4-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
5-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
6-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
7-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
8-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
9-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
10-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
11-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
12-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
13-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
14-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
15-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
16-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
17-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
18-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
19-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
20-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
21-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
22-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
23-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
24-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
25-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
26-Jan-15			2.6	82.15			Rp 62,932.65	Rp 62,932.65
27-Jan-15			0	82.15			Rp 62,932.65	Rp 62,932.65
28-Jan-15			0	82.15			Rp 62,932.65	Rp 62,932.65
29-Jan-15			0	82.15			Rp 62,932.65	Rp 62,932.65
30-Jan-15			10.95	71.2			Rp 54,544.18	Rp 54,544.18
31-Jan-15			0	71.2			Rp 54,544.18	Rp 54,544.18
1-Feb-15			0	71.2			Rp 54,544.18	Rp 54,544.18
2-Feb-15			0	71.2			Rp 54,544.18	Rp 54,544.18
3-Feb-15			0	71.2			Rp 54,544.18	Rp 54,544.18
4-Feb-15			0	71.2			Rp 54,544.18	Rp 54,544.18
5-Feb-15			0	71.2			Rp 54,544.18	Rp 54,544.18
6-Feb-15			0	71.2			Rp 54,544.18	Rp 54,544.18
7-Feb-15			0	71.2			Rp 54,544.18	Rp 54,544.18
8-Feb-15			0	71.2			Rp 54,544.18	Rp 54,544.18
9-Feb-15			0.03	71.17			Rp 54,521.20	Rp 54,521.20
10-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
11-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
12-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
13-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
14-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
15-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
16-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
17-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
18-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
19-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
20-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
21-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
22-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
23-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
24-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
25-Feb-15			0	71.17			Rp 54,521.20	Rp 54,521.20
26-Feb-15			1.27	69.9			Rp 53,548.29	Rp 53,548.29
27-Feb-15			0	69.9			Rp 53,548.29	Rp 53,548.29
28-Feb-15			0	69.9			Rp 53,548.29	Rp 53,548.29
1-Mar-15			0	69.9			Rp 53,548.29	Rp 53,548.29
2-Mar-15			0	69.9			Rp 53,548.29	Rp 53,548.29
3-Mar-15			0	69.9			Rp 53,548.29	Rp 53,548.29
4-Mar-15			8.42	61.48			Rp 47,097.98	Rp 47,097.98
5-Mar-15			0	61.48			Rp 47,097.98	Rp 47,097.98
6-Mar-15			0	61.48			Rp 47,097.98	Rp 47,097.98
7-Mar-15			7.92	53.56			Rp 41,030.71	Rp 41,030.71
8-Mar-15			0	53.56			Rp 41,030.71	Rp 41,030.71
9-Mar-15			0	53.56			Rp 41,030.71	Rp 41,030.71
10-Mar-15			0	53.56			Rp 41,030.71	Rp 41,030.71
11-Mar-15			0.36	53.2			Rp 40,754.92	Rp 40,754.92
12-Mar-15			0	53.2			Rp 40,754.92	Rp 40,754.92
13-Mar-15			0	53.2			Rp 40,754.92	Rp 40,754.92
14-Mar-15			0	53.2			Rp 40,754.92	Rp 40,754.92
15-Mar-15			0	53.2			Rp 40,754.92	Rp 40,754.92
16-Mar-15			0	53.2			Rp 40,754.92	Rp 40,754.92
17-Mar-15			0	53.2			Rp 40,754.92	Rp 40,754.92
18-Mar-15			0	53.2			Rp 40,754.92	Rp 40,754.92
19-Mar-15			0	53.2			Rp 40,754.92	Rp 40,754.92
20-Mar-15			0	53.2			Rp 40,754.92	Rp 40,754.92
21-Mar-15			2.67	50.53			Rp 38,709.52	Rp 38,709.52
22-Mar-15			0	50.53			Rp 38,709.52	Rp 38,709.52
23-Mar-15			0	50.53			Rp 38,709.52	Rp 38,709.52
24-Mar-15			0	50.53			Rp 38,709.52	Rp 38,709.52
25-Mar-15			0	50.53			Rp 38,709.52	Rp 38,709.52
26-Mar-15			0	50.53			Rp 38,709.52	Rp 38,709.52
27-Mar-15			0	50.53			Rp 38,709.52	Rp 38,709.52
28-Mar-15			0	50.53			Rp 38,709.52	Rp 38,709.52
29-Mar-15			0	50.53			Rp 38,709.52	Rp 38,709.52
30-Mar-15			0	50.53			Rp 38,709.52	Rp 38,709.52
31-Mar-15			0	50.53			Rp 38,709.52	Rp 38,709.52
1-Apr-15			0	50.53			Rp 38,709.52	Rp 38,709.52
2-Apr-15			0	50.53			Rp 38,709.52	Rp 38,709.52
3-Apr-15			0	50.53			Rp 38,709.52	Rp 38,709.52
4-Apr-15			0	50.53			Rp 38,709.52	Rp 38,709.52
5-Apr-15			0	50.53			Rp 38,709.52	Rp 38,709.52
6-Apr-15			0	50.53			Rp 38,709.52	Rp 38,709.52
7-Apr-15			0	50.53			Rp 38,709.52	Rp 38,709.52
8-Apr-15			0	50.53			Rp 38,709.52	Rp 38,709.52
9-Apr-15			0	50.53			Rp 38,709.52	Rp 38,709.52
10-Apr-15			0	50.53			Rp 38,709.52	Rp 38,709.52
11-Apr-15			1.09	49.44			Rp 37,874.50	Rp 37,874.50
12-Apr-15			0	49.44			Rp 37,874.50	Rp 37,874.50
13-Apr-15			0.13	49.31			Rp 37,774.91	Rp 37,774.91
14-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
15-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
16-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
17-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
18-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
19-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
20-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
21-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
22-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
23-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
24-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
25-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
26-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
27-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
28-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
29-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
30-Apr-15			0	49.31			Rp 37,774.91	Rp 37,774.91
1-May-15			1.07	48.24			Rp 36,955.22	Rp 36,955.22
2-May-15			0	48.24			Rp 36,955.22	Rp 36,955.22
3-May-15			0	48.24			Rp 36,955.22	Rp 36,955.22
4-May-15			1.77	46.47			Rp 35,599.27	Rp 35,599.27
5-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
6-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
7-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
8-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
9-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
10-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
11-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
12-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
13-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
14-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
15-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
16-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
17-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
18-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
19-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
20-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
21-May-15			0	46.47			Rp 35,599.27	Rp 35,599.27
22-May-15			1.6	44.87			Rp 34,373.56	Rp 34,373.56
23-May-15			0	44.87			Rp 34,373.56	Rp 34,373.56
24-May-15			0	44.87			Rp 34,373.56	Rp 34,373.56
25-May-15			0	44.87			Rp 34,373.56	Rp 34,373.56
26-May-15			0	44.87			Rp 34,373.56	Rp 34,373.56
27-May-15			3.34	41.53			Rp 31,814.89	Rp 31,814.89
28-May-15			0	41.53			Rp 31,814.89	Rp 31,814.89
29-May-15			0.97	40.56			Rp 31,071.80	Rp 31,071.80
30-May-15			0	40.56			Rp 31,071.80	Rp 31,071.80
31-May-15			1.77	38.79			Rp 29,715.86	Rp 29,715.86
1-Jun-15			0	38.79			Rp 29,715.86	Rp 29,715.86
2-Jun-15			0	38.79			Rp 29,715.86	Rp 29,715.86
3-Jun-15			0	38.79			Rp 29,715.86	Rp 29,715.86
4-Jun-15			0	38.79			Rp 29,715.86	Rp 29,715.86
5-Jun-15			0	38.79			Rp 29,715.86	Rp 29,715.86
6-Jun-15			0	38.79			Rp 29,715.86	Rp 29,715.86
7-Jun-15			0	38.79			Rp 29,715.86	Rp 29,715.86
8-Jun-15			0	38.79			Rp 29,715.86	Rp 29,715.86
9-Jun-15			0	38.79			Rp 29,715.86	Rp 29,715.86
10-Jun-15			0.9	37.89			Rp 29,026.39	Rp 29,026.39
11-Jun-15			0	37.89			Rp 29,026.39	Rp 29,026.39
12-Jun-15			0	37.89			Rp 29,026.39	Rp 29,026.39
13-Jun-15			1.17	36.72			Rp 28,130.09	Rp 28,130.09
14-Jun-15			0	36.72			Rp 28,130.09	Rp 28,130.09
15-Jun-15			0	36.72			Rp 28,130.09	Rp 28,130.09
16-Jun-15			0	36.72			Rp 28,130.09	Rp 28,130.09
17-Jun-15			18.9	17.82			Rp 13,651.37	Rp 13,651.37
18-Jun-15			2.05	15.77			Rp 12,080.92	Rp 12,080.92
19-Jun-15			0	15.77			Rp 12,080.92	Rp 12,080.92
20-Jun-15			19.77	-4		Rp 1,556,301.60	Rp 12,080.92	Rp 1,568,382.52
21-Jun-15			0	15.77			Rp 12,080.92	Rp 12,080.92
22-Jun-15			0	15.77			Rp 12,080.92	Rp 12,080.92
23-Jun-15			0	15.77			Rp 12,080.92	Rp 12,080.92
24-Jun-15			0	15.77			Rp 12,080.92	Rp 12,080.92
25-Jun-15			0	15.77			Rp 12,080.92	Rp 12,080.92
26-Jun-15			0	15.77			Rp 12,080.92	Rp 12,080.92
27-Jun-15			0	15.77			Rp 12,080.92	Rp 12,080.92
28-Jun-15			0	15.77			Rp 12,080.92	Rp 12,080.92
29-Jun-15			0	15.77			Rp 12,080.92	Rp 12,080.92
30-Jun-15			17.67	-1.9		Rp 1,556,301.60	Rp 12,080.92	Rp 1,568,382.52
1-Jul-15			0	15.77			Rp 12,080.92	Rp 12,080.92
2-Jul-15			0	15.77			Rp 12,080.92	Rp 12,080.92
3-Jul-15			0	15.77			Rp 12,080.92	Rp 12,080.92
4-Jul-15			2.82	12.95			Rp 9,920.61	Rp 9,920.61
5-Jul-15			0	12.95			Rp 9,920.61	Rp 9,920.61
6-Jul-15			0	12.95			Rp 9,920.61	Rp 9,920.61
7-Jul-15			0	12.95			Rp 9,920.61	Rp 9,920.61
8-Jul-15			0	12.95			Rp 9,920.61	Rp 9,920.61
9-Jul-15			0	12.95			Rp 9,920.61	Rp 9,920.61
10-Jul-15			0.46	12.49			Rp 9,568.21	Rp 9,568.21

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
11-Jul-15			0	12.49			Rp 9,568.21	Rp 9,568.21
12-Jul-15			0	12.49			Rp 9,568.21	Rp 9,568.21
13-Jul-15			0.41	12.08			Rp 9,254.13	Rp 9,254.13
14-Jul-15	18.65		0	12.08	Rp 131,774.28		Rp 9,254.13	Rp 141,028.41
15-Jul-15			0	12.08			Rp 9,254.13	Rp 9,254.13
16-Jul-15		18.65	0	30.73			Rp 23,541.33	Rp 23,541.33
17-Jul-15			0	30.73			Rp 23,541.33	Rp 23,541.33
18-Jul-15			3.59	27.14			Rp 20,791.14	Rp 20,791.14
19-Jul-15			0	27.14			Rp 20,791.14	Rp 20,791.14
20-Jul-15			0	27.14			Rp 20,791.14	Rp 20,791.14
21-Jul-15			0	27.14			Rp 20,791.14	Rp 20,791.14
22-Jul-15			0.03	27.11			Rp 20,768.16	Rp 20,768.16
23-Jul-15			0	27.11			Rp 20,768.16	Rp 20,768.16
24-Jul-15			3.99	23.12			Rp 17,711.54	Rp 17,711.54
25-Jul-15			0	23.12			Rp 17,711.54	Rp 17,711.54
26-Jul-15			0	23.12			Rp 17,711.54	Rp 17,711.54
27-Jul-15			0	23.12			Rp 17,711.54	Rp 17,711.54
28-Jul-15			0	23.12			Rp 17,711.54	Rp 17,711.54
29-Jul-15			0	23.12			Rp 17,711.54	Rp 17,711.54
30-Jul-15			0	23.12			Rp 17,711.54	Rp 17,711.54
31-Jul-15			0	23.12			Rp 17,711.54	Rp 17,711.54
1-Aug-15			0	23.12			Rp 17,711.54	Rp 17,711.54
2-Aug-15			0	23.12			Rp 17,711.54	Rp 17,711.54
3-Aug-15			0	23.12			Rp 17,711.54	Rp 17,711.54
4-Aug-15			0	23.12			Rp 17,711.54	Rp 17,711.54
5-Aug-15			0	23.12			Rp 17,711.54	Rp 17,711.54
6-Aug-15			0	23.12			Rp 17,711.54	Rp 17,711.54
7-Aug-15			0	23.12			Rp 17,711.54	Rp 17,711.54
8-Aug-15			0	23.12			Rp 17,711.54	Rp 17,711.54
9-Aug-15			0	23.12			Rp 17,711.54	Rp 17,711.54
10-Aug-15			0	23.12			Rp 17,711.54	Rp 17,711.54
11-Aug-15			0	23.12			Rp 17,711.54	Rp 17,711.54
12-Aug-15			0	23.12			Rp 17,711.54	Rp 17,711.54
13-Aug-15			0	23.12			Rp 17,711.54	Rp 17,711.54
14-Aug-15			0	23.12			Rp 17,711.54	Rp 17,711.54
15-Aug-15			0	23.12			Rp 17,711.54	Rp 17,711.54
16-Aug-15			0	23.12			Rp 17,711.54	Rp 17,711.54
17-Aug-15			0	23.12			Rp 17,711.54	Rp 17,711.54
18-Aug-15			6.58	16.54			Rp 12,670.80	Rp 12,670.80
19-Aug-15			0	16.54			Rp 12,670.80	Rp 12,670.80
20-Aug-15			0	16.54			Rp 12,670.80	Rp 12,670.80
21-Aug-15			0	16.54			Rp 12,670.80	Rp 12,670.80
22-Aug-15			0	16.54			Rp 12,670.80	Rp 12,670.80
23-Aug-15			0	16.54			Rp 12,670.80	Rp 12,670.80
24-Aug-15			0	16.54			Rp 12,670.80	Rp 12,670.80
25-Aug-15			0	16.54			Rp 12,670.80	Rp 12,670.80
26-Aug-15			1.3	15.24			Rp 11,674.91	Rp 11,674.91
27-Aug-15			0	15.24			Rp 11,674.91	Rp 11,674.91
28-Aug-15			0	15.24			Rp 11,674.91	Rp 11,674.91
29-Aug-15			0	15.24			Rp 11,674.91	Rp 11,674.91
30-Aug-15			0	15.24			Rp 11,674.91	Rp 11,674.91
31-Aug-15			0	15.24			Rp 11,674.91	Rp 11,674.91
1-Sep-15			0	15.24			Rp 11,674.91	Rp 11,674.91
2-Sep-15			0	15.24			Rp 11,674.91	Rp 11,674.91
3-Sep-15			0	15.24			Rp 11,674.91	Rp 11,674.91
4-Sep-15			0	15.24			Rp 11,674.91	Rp 11,674.91
5-Sep-15			0	15.24			Rp 11,674.91	Rp 11,674.91
6-Sep-15			0	15.24			Rp 11,674.91	Rp 11,674.91
7-Sep-15			0	15.24			Rp 11,674.91	Rp 11,674.91
8-Sep-15			0	15.24			Rp 11,674.91	Rp 11,674.91
9-Sep-15			0	15.24			Rp 11,674.91	Rp 11,674.91
10-Sep-15			0	15.24			Rp 11,674.91	Rp 11,674.91
11-Sep-15			1.94	13.3			Rp 10,188.73	Rp 10,188.73
12-Sep-15	17.43		0	13.3	Rp 131,774.28		Rp 10,188.73	Rp 141,963.01
13-Sep-15		17.43	0	30.73			Rp 23,541.33	Rp 23,541.33
14-Sep-15			0	30.73			Rp 23,541.33	Rp 23,541.33
15-Sep-15			0	30.73			Rp 23,541.33	Rp 23,541.33
16-Sep-15			0	30.73			Rp 23,541.33	Rp 23,541.33
17-Sep-15			3.83	26.9			Rp 20,607.28	Rp 20,607.28
18-Sep-15			0	26.9			Rp 20,607.28	Rp 20,607.28
19-Sep-15			0	26.9			Rp 20,607.28	Rp 20,607.28
20-Sep-15			0	26.9			Rp 20,607.28	Rp 20,607.28
21-Sep-15			2.2	24.7			Rp 18,921.93	Rp 18,921.93
22-Sep-15			0	24.7			Rp 18,921.93	Rp 18,921.93

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
23-Sep-15			0	24.7			Rp 18,921.93	Rp 18,921.93
24-Sep-15			0	24.7			Rp 18,921.93	Rp 18,921.93
25-Sep-15			1.53	23.17			Rp 17,749.84	Rp 17,749.84
26-Sep-15			0	23.17			Rp 17,749.84	Rp 17,749.84
27-Sep-15			0	23.17			Rp 17,749.84	Rp 17,749.84
28-Sep-15			0	23.17			Rp 17,749.84	Rp 17,749.84
29-Sep-15			0	23.17			Rp 17,749.84	Rp 17,749.84
30-Sep-15			1.55	21.62			Rp 16,562.43	Rp 16,562.43
1-Oct-15			0	21.62			Rp 16,562.43	Rp 16,562.43
2-Oct-15			0	21.62			Rp 16,562.43	Rp 16,562.43
3-Oct-15			0	21.62			Rp 16,562.43	Rp 16,562.43
4-Oct-15			0	21.62			Rp 16,562.43	Rp 16,562.43
5-Oct-15			0	21.62			Rp 16,562.43	Rp 16,562.43
6-Oct-15			0	21.62			Rp 16,562.43	Rp 16,562.43
7-Oct-15			0	21.62			Rp 16,562.43	Rp 16,562.43
8-Oct-15			0	21.62			Rp 16,562.43	Rp 16,562.43
9-Oct-15			3.62	18			Rp 13,789.26	Rp 13,789.26
10-Oct-15			0	18			Rp 13,789.26	Rp 13,789.26
11-Oct-15			0	18			Rp 13,789.26	Rp 13,789.26
12-Oct-15			0	18			Rp 13,789.26	Rp 13,789.26
13-Oct-15			1.95	16.05			Rp 12,295.42	Rp 12,295.42
14-Oct-15			0	16.05			Rp 12,295.42	Rp 12,295.42
15-Oct-15			0	16.05			Rp 12,295.42	Rp 12,295.42
16-Oct-15			0	16.05			Rp 12,295.42	Rp 12,295.42
17-Oct-15			0	16.05			Rp 12,295.42	Rp 12,295.42
18-Oct-15			0	16.05			Rp 12,295.42	Rp 12,295.42
19-Oct-15			3.59	12.46			Rp 9,545.23	Rp 9,545.23
20-Oct-15			0	12.46			Rp 9,545.23	Rp 9,545.23
21-Oct-15			2.92	9.54			Rp 7,308.31	Rp 7,308.31
22-Oct-15			0	9.54			Rp 7,308.31	Rp 7,308.31
23-Oct-15			0	9.54			Rp 7,308.31	Rp 7,308.31
24-Oct-15			0	9.54			Rp 7,308.31	Rp 7,308.31
25-Oct-15			0	9.54			Rp 7,308.31	Rp 7,308.31
26-Oct-15			0	9.54			Rp 7,308.31	Rp 7,308.31
27-Oct-15			0	9.54			Rp 7,308.31	Rp 7,308.31
28-Oct-15			0	9.54			Rp 7,308.31	Rp 7,308.31
29-Oct-15			0	9.54			Rp 7,308.31	Rp 7,308.31
30-Oct-15			0	9.54			Rp 7,308.31	Rp 7,308.31
31-Oct-15			0	9.54			Rp 7,308.31	Rp 7,308.31
1-Nov-15			0	9.54			Rp 7,308.31	Rp 7,308.31
2-Nov-15			0	9.54			Rp 7,308.31	Rp 7,308.31
3-Nov-15			0	9.54			Rp 7,308.31	Rp 7,308.31
4-Nov-15			0	9.54			Rp 7,308.31	Rp 7,308.31
5-Nov-15			0	9.54			Rp 7,308.31	Rp 7,308.31
6-Nov-15			0	9.54			Rp 7,308.31	Rp 7,308.31
7-Nov-15			0	9.54			Rp 7,308.31	Rp 7,308.31
8-Nov-15			0.38	9.16			Rp 7,017.20	Rp 7,017.20
9-Nov-15			0	9.16			Rp 7,017.20	Rp 7,017.20
10-Nov-15			0	9.16			Rp 7,017.20	Rp 7,017.20
11-Nov-15	21.57		0	9.16	Rp 131,774.28		Rp 7,017.20	Rp 138,791.48
12-Nov-15			0	9.16			Rp 7,017.20	Rp 7,017.20
13-Nov-15			0	9.16			Rp 7,017.20	Rp 7,017.20
14-Nov-15			8.56	0.6			Rp 459.64	Rp 459.64
15-Nov-15		21.57	0	22.17			Rp 16,983.77	Rp 16,983.77
16-Nov-15			0	22.17			Rp 16,983.77	Rp 16,983.77
17-Nov-15			0	22.17			Rp 16,983.77	Rp 16,983.77
18-Nov-15			0	22.17			Rp 16,983.77	Rp 16,983.77
19-Nov-15			0	22.17			Rp 16,983.77	Rp 16,983.77
20-Nov-15			0	22.17			Rp 16,983.77	Rp 16,983.77
21-Nov-15			0	22.17			Rp 16,983.77	Rp 16,983.77
22-Nov-15			0	22.17			Rp 16,983.77	Rp 16,983.77
23-Nov-15			1.11	21.06			Rp 16,133.43	Rp 16,133.43
24-Nov-15			0	21.06			Rp 16,133.43	Rp 16,133.43
25-Nov-15			0	21.06			Rp 16,133.43	Rp 16,133.43
26-Nov-15			0	21.06			Rp 16,133.43	Rp 16,133.43
27-Nov-15			0	21.06			Rp 16,133.43	Rp 16,133.43
28-Nov-15			0	21.06			Rp 16,133.43	Rp 16,133.43
29-Nov-15			0	21.06			Rp 16,133.43	Rp 16,133.43
30-Nov-15			0.8	20.26			Rp 15,520.58	Rp 15,520.58
1-Dec-15			4.35	15.91			Rp 12,188.17	Rp 12,188.17
2-Dec-15			0	15.91			Rp 12,188.17	Rp 12,188.17
3-Dec-15			0	15.91			Rp 12,188.17	Rp 12,188.17
4-Dec-15			0	15.91			Rp 12,188.17	Rp 12,188.17
5-Dec-15			0	15.91			Rp 12,188.17	Rp 12,188.17

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
6-Dec-15			4.64	11.27			Rp 8,633.61	Rp 8,633.61
7-Dec-15			0	11.27			Rp 8,633.61	Rp 8,633.61
8-Dec-15			0	11.27			Rp 8,633.61	Rp 8,633.61
9-Dec-15			0	11.27			Rp 8,633.61	Rp 8,633.61
10-Dec-15			0	11.27			Rp 8,633.61	Rp 8,633.61
11-Dec-15	19.46		0	11.27	Rp 131,774.28		Rp 8,633.61	Rp 140,407.89
12-Dec-15		19.46	9.66	21.07			Rp 16,141.09	Rp 16,141.09
13-Dec-15			0	21.07			Rp 16,141.09	Rp 16,141.09
14-Dec-15			0	21.07			Rp 16,141.09	Rp 16,141.09
15-Dec-15			0	21.07			Rp 16,141.09	Rp 16,141.09
16-Dec-15			0	21.07			Rp 16,141.09	Rp 16,141.09
17-Dec-15			0	21.07			Rp 16,141.09	Rp 16,141.09
18-Dec-15			0	21.07			Rp 16,141.09	Rp 16,141.09
19-Dec-15			0	21.07			Rp 16,141.09	Rp 16,141.09
20-Dec-15			1.9	19.17			Rp 14,685.56	Rp 14,685.56
21-Dec-15			0	19.17			Rp 14,685.56	Rp 14,685.56
22-Dec-15			0	19.17			Rp 14,685.56	Rp 14,685.56
23-Dec-15			0	19.17			Rp 14,685.56	Rp 14,685.56
24-Dec-15			0	19.17			Rp 14,685.56	Rp 14,685.56
25-Dec-15			0	19.17			Rp 14,685.56	Rp 14,685.56
26-Dec-15			0	19.17			Rp 14,685.56	Rp 14,685.56
27-Dec-15			0	19.17			Rp 14,685.56	Rp 14,685.56
28-Dec-15			9.97	9.2			Rp 7,047.84	Rp 7,047.84
29-Dec-15			0	9.2			Rp 7,047.84	Rp 7,047.84
30-Dec-15			0	9.2			Rp 7,047.84	Rp 7,047.84
31-Dec-15			0	9.2			Rp 7,047.84	Rp 7,047.84
								Rp 13,910,822.15

Replication 7

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
31-Dec-14			0	84.75			Rp 64,924.43	Rp 64,924.43
1-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
2-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
3-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
4-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
5-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
6-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
7-Jan-15			0	84.75			Rp 64,924.43	Rp 64,924.43
8-Jan-15			0.03	84.72			Rp 64,901.45	Rp 64,901.45
9-Jan-15			0	84.72			Rp 64,901.45	Rp 64,901.45
10-Jan-15			0	84.72			Rp 64,901.45	Rp 64,901.45
11-Jan-15			0	84.72			Rp 64,901.45	Rp 64,901.45
12-Jan-15			0	84.72			Rp 64,901.45	Rp 64,901.45
13-Jan-15			0	84.72			Rp 64,901.45	Rp 64,901.45
14-Jan-15			1.71	83.01			Rp 63,591.47	Rp 63,591.47
15-Jan-15			0	83.01			Rp 63,591.47	Rp 63,591.47
16-Jan-15			0	83.01			Rp 63,591.47	Rp 63,591.47
17-Jan-15			0	83.01			Rp 63,591.47	Rp 63,591.47
18-Jan-15			0.12	82.89			Rp 63,499.54	Rp 63,499.54
19-Jan-15			0	82.89			Rp 63,499.54	Rp 63,499.54
20-Jan-15			0	82.89			Rp 63,499.54	Rp 63,499.54
21-Jan-15			0	82.89			Rp 63,499.54	Rp 63,499.54
22-Jan-15			0	82.89			Rp 63,499.54	Rp 63,499.54
23-Jan-15			0.6	82.29			Rp 63,039.90	Rp 63,039.90
24-Jan-15			0	82.29			Rp 63,039.90	Rp 63,039.90
25-Jan-15			0	82.29			Rp 63,039.90	Rp 63,039.90
26-Jan-15			0	82.29			Rp 63,039.90	Rp 63,039.90
27-Jan-15			0	82.29			Rp 63,039.90	Rp 63,039.90
28-Jan-15			0	82.29			Rp 63,039.90	Rp 63,039.90
29-Jan-15			0	82.29			Rp 63,039.90	Rp 63,039.90
30-Jan-15			0	82.29			Rp 63,039.90	Rp 63,039.90
31-Jan-15			0.89	81.4			Rp 62,358.10	Rp 62,358.10
1-Feb-15			0	81.4			Rp 62,358.10	Rp 62,358.10
2-Feb-15			0.18	81.22			Rp 62,220.21	Rp 62,220.21
3-Feb-15			0	81.22			Rp 62,220.21	Rp 62,220.21
4-Feb-15			0	81.22			Rp 62,220.21	Rp 62,220.21
5-Feb-15			0	81.22			Rp 62,220.21	Rp 62,220.21
6-Feb-15			0	81.22			Rp 62,220.21	Rp 62,220.21
7-Feb-15			0	81.22			Rp 62,220.21	Rp 62,220.21
8-Feb-15			18.85	62.37			Rp 47,779.79	Rp 47,779.79

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
9-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
10-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
11-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
12-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
13-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
14-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
15-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
16-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
17-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
18-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
19-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
20-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
21-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
22-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
23-Feb-15			0	62.37			Rp 47,779.79	Rp 47,779.79
24-Feb-15			0.77	61.6			Rp 47,189.91	Rp 47,189.91
25-Feb-15			0	61.6			Rp 47,189.91	Rp 47,189.91
26-Feb-15			0	61.6			Rp 47,189.91	Rp 47,189.91
27-Feb-15			0	61.6			Rp 47,189.91	Rp 47,189.91
28-Feb-15			0	61.6			Rp 47,189.91	Rp 47,189.91
1-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
2-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
3-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
4-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
5-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
6-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
7-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
8-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
9-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
10-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
11-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
12-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
13-Mar-15			0	61.6			Rp 47,189.91	Rp 47,189.91
14-Mar-15			1.31	60.29			Rp 46,186.36	Rp 46,186.36
15-Mar-15			0	60.29			Rp 46,186.36	Rp 46,186.36
16-Mar-15			0	60.29			Rp 46,186.36	Rp 46,186.36
17-Mar-15			0	60.29			Rp 46,186.36	Rp 46,186.36
18-Mar-15			0	60.29			Rp 46,186.36	Rp 46,186.36
19-Mar-15			0	60.29			Rp 46,186.36	Rp 46,186.36
20-Mar-15			0	60.29			Rp 46,186.36	Rp 46,186.36
21-Mar-15			0.69	59.6			Rp 45,657.77	Rp 45,657.77
22-Mar-15			0	59.6			Rp 45,657.77	Rp 45,657.77
23-Mar-15			0	59.6			Rp 45,657.77	Rp 45,657.77
24-Mar-15			0.87	58.73			Rp 44,991.29	Rp 44,991.29
25-Mar-15			0	58.73			Rp 44,991.29	Rp 44,991.29
26-Mar-15			0.08	58.65			Rp 44,930.01	Rp 44,930.01
27-Mar-15			0	58.65			Rp 44,930.01	Rp 44,930.01
28-Mar-15			0	58.65			Rp 44,930.01	Rp 44,930.01
29-Mar-15			0	58.65			Rp 44,930.01	Rp 44,930.01
30-Mar-15			0	58.65			Rp 44,930.01	Rp 44,930.01
31-Mar-15			0	58.65			Rp 44,930.01	Rp 44,930.01
1-Apr-15			0	58.65			Rp 44,930.01	Rp 44,930.01
2-Apr-15			0.75	57.9			Rp 44,355.45	Rp 44,355.45
3-Apr-15			1.88	56.02			Rp 42,915.24	Rp 42,915.24
4-Apr-15			0	56.02			Rp 42,915.24	Rp 42,915.24
5-Apr-15			0	56.02			Rp 42,915.24	Rp 42,915.24
6-Apr-15			2.48	53.54			Rp 41,015.39	Rp 41,015.39
7-Apr-15			0	53.54			Rp 41,015.39	Rp 41,015.39
8-Apr-15			0	53.54			Rp 41,015.39	Rp 41,015.39
9-Apr-15			0	53.54			Rp 41,015.39	Rp 41,015.39
10-Apr-15			0	53.54			Rp 41,015.39	Rp 41,015.39
11-Apr-15			19.99	33.55			Rp 25,701.65	Rp 25,701.65
12-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
13-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
14-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
15-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
16-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
17-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
18-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
19-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
20-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
21-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
22-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
23-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
24-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
25-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
26-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
27-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
28-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
29-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
30-Apr-15			0	33.55			Rp 25,701.65	Rp 25,701.65
1-May-15			0	33.55			Rp 25,701.65	Rp 25,701.65
2-May-15			0	33.55			Rp 25,701.65	Rp 25,701.65
3-May-15			0	33.55			Rp 25,701.65	Rp 25,701.65
4-May-15			0	33.55			Rp 25,701.65	Rp 25,701.65
5-May-15			0	33.55			Rp 25,701.65	Rp 25,701.65
6-May-15			0	33.55			Rp 25,701.65	Rp 25,701.65
7-May-15			0.83	32.72			Rp 25,065.81	Rp 25,065.81
8-May-15			0	32.72			Rp 25,065.81	Rp 25,065.81
9-May-15			0	32.72			Rp 25,065.81	Rp 25,065.81
10-May-15			0	32.72			Rp 25,065.81	Rp 25,065.81
11-May-15			0	32.72			Rp 25,065.81	Rp 25,065.81
12-May-15			0	32.72			Rp 25,065.81	Rp 25,065.81
13-May-15			0	32.72			Rp 25,065.81	Rp 25,065.81
14-May-15			0	32.72			Rp 25,065.81	Rp 25,065.81
15-May-15			0	32.72			Rp 25,065.81	Rp 25,065.81
16-May-15			0	32.72			Rp 25,065.81	Rp 25,065.81
17-May-15			0	32.72			Rp 25,065.81	Rp 25,065.81
18-May-15			1.23	31.49			Rp 24,123.54	Rp 24,123.54
19-May-15			0	31.49			Rp 24,123.54	Rp 24,123.54
20-May-15			0	31.49			Rp 24,123.54	Rp 24,123.54
21-May-15			0	31.49			Rp 24,123.54	Rp 24,123.54
22-May-15			0	31.49			Rp 24,123.54	Rp 24,123.54
23-May-15			0	31.49			Rp 24,123.54	Rp 24,123.54
24-May-15			0	31.49			Rp 24,123.54	Rp 24,123.54
25-May-15			0	31.49			Rp 24,123.54	Rp 24,123.54
26-May-15			1.05	30.44			Rp 23,319.17	Rp 23,319.17
27-May-15			0	30.44			Rp 23,319.17	Rp 23,319.17
28-May-15			0	30.44			Rp 23,319.17	Rp 23,319.17
29-May-15			0.45	29.99			Rp 22,974.44	Rp 22,974.44
30-May-15			0	29.99			Rp 22,974.44	Rp 22,974.44
31-May-15			0	29.99			Rp 22,974.44	Rp 22,974.44
1-Jun-15			0	29.99			Rp 22,974.44	Rp 22,974.44
2-Jun-15			0	29.99			Rp 22,974.44	Rp 22,974.44
3-Jun-15			3.44	26.55			Rp 20,339.16	Rp 20,339.16
4-Jun-15			0	26.55			Rp 20,339.16	Rp 20,339.16
5-Jun-15			3.11	23.44			Rp 17,956.68	Rp 17,956.68
6-Jun-15			0	23.44			Rp 17,956.68	Rp 17,956.68
7-Jun-15			0	23.44			Rp 17,956.68	Rp 17,956.68
8-Jun-15			0.84	22.6			Rp 17,313.18	Rp 17,313.18
9-Jun-15			0	22.6			Rp 17,313.18	Rp 17,313.18
10-Jun-15			0	22.6			Rp 17,313.18	Rp 17,313.18
11-Jun-15			0	22.6			Rp 17,313.18	Rp 17,313.18
12-Jun-15			0	22.6			Rp 17,313.18	Rp 17,313.18
13-Jun-15			3.77	18.83			Rp 14,425.10	Rp 14,425.10
14-Jun-15	21.34		9.44	9.39	Rp 131,774.28		Rp 7,193.40	Rp 138,967.68
15-Jun-15		21.34	0	30.73			Rp 23,541.33	Rp 23,541.33
16-Jun-15			0	30.73			Rp 23,541.33	Rp 23,541.33
17-Jun-15			0	30.73			Rp 23,541.33	Rp 23,541.33
18-Jun-15			0	30.73			Rp 23,541.33	Rp 23,541.33
19-Jun-15			0	30.73			Rp 23,541.33	Rp 23,541.33
20-Jun-15			0	30.73			Rp 23,541.33	Rp 23,541.33
21-Jun-15			0	30.73			Rp 23,541.33	Rp 23,541.33
22-Jun-15			0	30.73			Rp 23,541.33	Rp 23,541.33
23-Jun-15			0	30.73			Rp 23,541.33	Rp 23,541.33
24-Jun-15			0	30.73			Rp 23,541.33	Rp 23,541.33
25-Jun-15			0	30.73			Rp 23,541.33	Rp 23,541.33
26-Jun-15			0	30.73			Rp 23,541.33	Rp 23,541.33
27-Jun-15			0	30.73			Rp 23,541.33	Rp 23,541.33
28-Jun-15			0	30.73			Rp 23,541.33	Rp 23,541.33
29-Jun-15			0	30.73			Rp 23,541.33	Rp 23,541.33
30-Jun-15			0	30.73			Rp 23,541.33	Rp 23,541.33
1-Jul-15			0	30.73			Rp 23,541.33	Rp 23,541.33
2-Jul-15			0	30.73			Rp 23,541.33	Rp 23,541.33
3-Jul-15			0	30.73			Rp 23,541.33	Rp 23,541.33
4-Jul-15			0	30.73			Rp 23,541.33	Rp 23,541.33
5-Jul-15			0	30.73			Rp 23,541.33	Rp 23,541.33
6-Jul-15			0	30.73			Rp 23,541.33	Rp 23,541.33

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
7-Jul-15			0	30.73			Rp 23,541.33	Rp 23,541.33
8-Jul-15			0.67	30.06			Rp 23,028.06	Rp 23,028.06
9-Jul-15			0	30.06			Rp 23,028.06	Rp 23,028.06
10-Jul-15			1.52	28.54			Rp 21,863.64	Rp 21,863.64
11-Jul-15			0	28.54			Rp 21,863.64	Rp 21,863.64
12-Jul-15			0	28.54			Rp 21,863.64	Rp 21,863.64
13-Jul-15			0	28.54			Rp 21,863.64	Rp 21,863.64
14-Jul-15			0	28.54			Rp 21,863.64	Rp 21,863.64
15-Jul-15			0	28.54			Rp 21,863.64	Rp 21,863.64
16-Jul-15			0	28.54			Rp 21,863.64	Rp 21,863.64
17-Jul-15			0	28.54			Rp 21,863.64	Rp 21,863.64
18-Jul-15			0	28.54			Rp 21,863.64	Rp 21,863.64
19-Jul-15			9.74	18.8			Rp 14,402.12	Rp 14,402.12
20-Jul-15			0.75	18.05			Rp 13,827.56	Rp 13,827.56
21-Jul-15			0	18.05			Rp 13,827.56	Rp 13,827.56
22-Jul-15			0	18.05			Rp 13,827.56	Rp 13,827.56
23-Jul-15			0	18.05			Rp 13,827.56	Rp 13,827.56
24-Jul-15			0	18.05			Rp 13,827.56	Rp 13,827.56
25-Jul-15			0	18.05			Rp 13,827.56	Rp 13,827.56
26-Jul-15			0	18.05			Rp 13,827.56	Rp 13,827.56
27-Jul-15			2.17	15.88			Rp 12,165.19	Rp 12,165.19
28-Jul-15			0	15.88			Rp 12,165.19	Rp 12,165.19
29-Jul-15			0	15.88			Rp 12,165.19	Rp 12,165.19
30-Jul-15			0	15.88			Rp 12,165.19	Rp 12,165.19
31-Jul-15			0	15.88			Rp 12,165.19	Rp 12,165.19
1-Aug-15			0	15.88			Rp 12,165.19	Rp 12,165.19
2-Aug-15			0	15.88			Rp 12,165.19	Rp 12,165.19
3-Aug-15			0	15.88			Rp 12,165.19	Rp 12,165.19
4-Aug-15			0	15.88			Rp 12,165.19	Rp 12,165.19
5-Aug-15			0	15.88			Rp 12,165.19	Rp 12,165.19
6-Aug-15			0	15.88			Rp 12,165.19	Rp 12,165.19
7-Aug-15			0	15.88			Rp 12,165.19	Rp 12,165.19
8-Aug-15			0	15.88			Rp 12,165.19	Rp 12,165.19
9-Aug-15			0	15.88			Rp 12,165.19	Rp 12,165.19
10-Aug-15			0	15.88			Rp 12,165.19	Rp 12,165.19
11-Aug-15			0	15.88			Rp 12,165.19	Rp 12,165.19
12-Aug-15			0	15.88			Rp 12,165.19	Rp 12,165.19
13-Aug-15	14.85		0	15.88	Rp 131,774.28		Rp 12,165.19	Rp 143,939.47
14-Aug-15		14.85	0	30.73			Rp 23,541.33	Rp 23,541.33
15-Aug-15			0	30.73			Rp 23,541.33	Rp 23,541.33
16-Aug-15			0	30.73			Rp 23,541.33	Rp 23,541.33
17-Aug-15			0	30.73			Rp 23,541.33	Rp 23,541.33
18-Aug-15			0	30.73			Rp 23,541.33	Rp 23,541.33
19-Aug-15			1.84	28.89			Rp 22,131.76	Rp 22,131.76
20-Aug-15			0	28.89			Rp 22,131.76	Rp 22,131.76
21-Aug-15			0	28.89			Rp 22,131.76	Rp 22,131.76
22-Aug-15			0	28.89			Rp 22,131.76	Rp 22,131.76
23-Aug-15			0	28.89			Rp 22,131.76	Rp 22,131.76
24-Aug-15			9.8	19.09			Rp 14,624.28	Rp 14,624.28
25-Aug-15			0	19.09			Rp 14,624.28	Rp 14,624.28
26-Aug-15			0	19.09			Rp 14,624.28	Rp 14,624.28
27-Aug-15			0	19.09			Rp 14,624.28	Rp 14,624.28
28-Aug-15			0	19.09			Rp 14,624.28	Rp 14,624.28
29-Aug-15			0	19.09			Rp 14,624.28	Rp 14,624.28
30-Aug-15			0	19.09			Rp 14,624.28	Rp 14,624.28
31-Aug-15			0	19.09			Rp 14,624.28	Rp 14,624.28
1-Sep-15			0	19.09			Rp 14,624.28	Rp 14,624.28
2-Sep-15			0	19.09			Rp 14,624.28	Rp 14,624.28
3-Sep-15			0	19.09			Rp 14,624.28	Rp 14,624.28
4-Sep-15			0	19.09			Rp 14,624.28	Rp 14,624.28
5-Sep-15			0	19.09			Rp 14,624.28	Rp 14,624.28
6-Sep-15			1.53	17.56			Rp 13,452.19	Rp 13,452.19
7-Sep-15			0	17.56			Rp 13,452.19	Rp 13,452.19
8-Sep-15			0	17.56			Rp 13,452.19	Rp 13,452.19
9-Sep-15			0	17.56			Rp 13,452.19	Rp 13,452.19
10-Sep-15			0	17.56			Rp 13,452.19	Rp 13,452.19
11-Sep-15			0	17.56			Rp 13,452.19	Rp 13,452.19
12-Sep-15	13.18		0.01	17.55	Rp 131,774.28		Rp 13,444.53	Rp 145,218.81
13-Sep-15		13.18	0	30.73			Rp 23,541.33	Rp 23,541.33
14-Sep-15			0	30.73			Rp 23,541.33	Rp 23,541.33
15-Sep-15			0	30.73			Rp 23,541.33	Rp 23,541.33
16-Sep-15			0	30.73			Rp 23,541.33	Rp 23,541.33
17-Sep-15			0	30.73			Rp 23,541.33	Rp 23,541.33
18-Sep-15			0	30.73			Rp 23,541.33	Rp 23,541.33

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
19-Sep-15			0	30.73			Rp 23,541.33	Rp 23,541.33
20-Sep-15			0	30.73			Rp 23,541.33	Rp 23,541.33
21-Sep-15			0	30.73			Rp 23,541.33	Rp 23,541.33
22-Sep-15			0	30.73			Rp 23,541.33	Rp 23,541.33
23-Sep-15			8.74	21.99			Rp 16,845.88	Rp 16,845.88
24-Sep-15			0	21.99			Rp 16,845.88	Rp 16,845.88
25-Sep-15			0	21.99			Rp 16,845.88	Rp 16,845.88
26-Sep-15			0	21.99			Rp 16,845.88	Rp 16,845.88
27-Sep-15			0	21.99			Rp 16,845.88	Rp 16,845.88
28-Sep-15			0	21.99			Rp 16,845.88	Rp 16,845.88
29-Sep-15			0	21.99			Rp 16,845.88	Rp 16,845.88
30-Sep-15			0	21.99			Rp 16,845.88	Rp 16,845.88
1-Oct-15			0	21.99			Rp 16,845.88	Rp 16,845.88
2-Oct-15			0	21.99			Rp 16,845.88	Rp 16,845.88
3-Oct-15			0	21.99			Rp 16,845.88	Rp 16,845.88
4-Oct-15			0	21.99			Rp 16,845.88	Rp 16,845.88
5-Oct-15			0	21.99			Rp 16,845.88	Rp 16,845.88
6-Oct-15			0	21.99			Rp 16,845.88	Rp 16,845.88
7-Oct-15			0	21.99			Rp 16,845.88	Rp 16,845.88
8-Oct-15			2.27	19.72			Rp 15,106.90	Rp 15,106.90
9-Oct-15			0	19.72			Rp 15,106.90	Rp 15,106.90
10-Oct-15			0	19.72			Rp 15,106.90	Rp 15,106.90
11-Oct-15			0	19.72			Rp 15,106.90	Rp 15,106.90
12-Oct-15			0	19.72			Rp 15,106.90	Rp 15,106.90
13-Oct-15			0	19.72			Rp 15,106.90	Rp 15,106.90
14-Oct-15			0	19.72			Rp 15,106.90	Rp 15,106.90
15-Oct-15			0	19.72			Rp 15,106.90	Rp 15,106.90
16-Oct-15			0	19.72			Rp 15,106.90	Rp 15,106.90
17-Oct-15			0.7	19.02			Rp 14,570.65	Rp 14,570.65
18-Oct-15			1.3	17.72			Rp 13,574.76	Rp 13,574.76
19-Oct-15			0	17.72			Rp 13,574.76	Rp 13,574.76
20-Oct-15			0	17.72			Rp 13,574.76	Rp 13,574.76
21-Oct-15			0	17.72			Rp 13,574.76	Rp 13,574.76
22-Oct-15			9.23	8.49			Rp 6,503.93	Rp 6,503.93
23-Oct-15			0	8.49			Rp 6,503.93	Rp 6,503.93
24-Oct-15			0	8.49			Rp 6,503.93	Rp 6,503.93
25-Oct-15			0	8.49			Rp 6,503.93	Rp 6,503.93
26-Oct-15			0	8.49			Rp 6,503.93	Rp 6,503.93
27-Oct-15			0	8.49			Rp 6,503.93	Rp 6,503.93
28-Oct-15			0	8.49			Rp 6,503.93	Rp 6,503.93
29-Oct-15			3.21	5.28			Rp 4,044.85	Rp 4,044.85
30-Oct-15			0.02	5.26			Rp 4,029.53	Rp 4,029.53
31-Oct-15			0	5.26			Rp 4,029.53	Rp 4,029.53
1-Nov-15			0	5.26			Rp 4,029.53	Rp 4,029.53
2-Nov-15			0	5.26			Rp 4,029.53	Rp 4,029.53
3-Nov-15			0	5.26			Rp 4,029.53	Rp 4,029.53
4-Nov-15			0	5.26			Rp 4,029.53	Rp 4,029.53
5-Nov-15			0	5.26			Rp 4,029.53	Rp 4,029.53
6-Nov-15			0	5.26			Rp 4,029.53	Rp 4,029.53
7-Nov-15			0	5.26			Rp 4,029.53	Rp 4,029.53
8-Nov-15			19.51	-14.25		Rp 1,556,301.60	Rp 4,029.53	Rp 1,560,331.13
9-Nov-15			0	5.26			Rp 4,029.53	Rp 4,029.53
10-Nov-15			0	5.26			Rp 4,029.53	Rp 4,029.53
11-Nov-15	25.47		0	5.26	Rp 131,774.28		Rp 4,029.53	Rp 135,803.81
12-Nov-15			0	5.26			Rp 4,029.53	Rp 4,029.53
13-Nov-15			0	5.26			Rp 4,029.53	Rp 4,029.53
14-Nov-15		25.47	0	30.73			Rp 23,541.33	Rp 23,541.33
15-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
16-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
17-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
18-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
19-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
20-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
21-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
22-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
23-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
24-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
25-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
26-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
27-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
28-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
29-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
30-Nov-15			0	30.73			Rp 23,541.33	Rp 23,541.33
1-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33

Date	Order	In	Demand	Inventory On Hand	Order Cost	Stock out Cost	Holding Cost	Daily Inventory Cost
2-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33
3-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33
4-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33
5-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33
6-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33
7-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33
8-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33
9-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33
10-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33
11-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33
12-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33
13-Dec-15			0	30.73			Rp 23,541.33	Rp 23,541.33
14-Dec-15			1.98	28.75			Rp 22,024.51	Rp 22,024.51
15-Dec-15			0	28.75			Rp 22,024.51	Rp 22,024.51
16-Dec-15			0	28.75			Rp 22,024.51	Rp 22,024.51
17-Dec-15			0	28.75			Rp 22,024.51	Rp 22,024.51
18-Dec-15			0	28.75			Rp 22,024.51	Rp 22,024.51
19-Dec-15			0	28.75			Rp 22,024.51	Rp 22,024.51
20-Dec-15			0	28.75			Rp 22,024.51	Rp 22,024.51
21-Dec-15			0	28.75			Rp 22,024.51	Rp 22,024.51
22-Dec-15			0	28.75			Rp 22,024.51	Rp 22,024.51
23-Dec-15			0	28.75			Rp 22,024.51	Rp 22,024.51
24-Dec-15			0	28.75			Rp 22,024.51	Rp 22,024.51
25-Dec-15			0	28.75			Rp 22,024.51	Rp 22,024.51
26-Dec-15			0	28.75			Rp 22,024.51	Rp 22,024.51
27-Dec-15			0	28.75			Rp 22,024.51	Rp 22,024.51
28-Dec-15			0	28.75			Rp 22,024.51	Rp 22,024.51
29-Dec-15			0	28.75			Rp 22,024.51	Rp 22,024.51
30-Dec-15			0	28.75			Rp 22,024.51	Rp 22,024.51
31-Dec-15			0	28.75			Rp 22,024.51	Rp 22,024.51
							Rp	12,480,500.76

APPENDIX G

PERIODIC REVIEW LEAD TIME

(AC 260 Gr 79 x 109)

Generated Lead Time

No	Random 1	Random2	Random 3	Random 4	Random 5	Random 6	Random 7
1	0.10517148	0.15262994	0.00626258	0.99523433	0.00782884	0.26484223	0.07897175
2	0.51086144	0.30178245	0.93665982	0.49994566	0.99991387	0.10780537	0.13711997
3	0.55670208		0.78594805	0.5757892	0.85433505	0.85566924	0.02646707
4				0.96015307	0.27053973	0.05904814	0.58219854
5					0.27721158		

Random Value

No	Value 1	Value 2	Value 3	Value 4	Value 5	Value 6	Value 7
1	1	2	1	8	1	2	1
2	3	2	6	2	8	1	1
3	3		3	3	4	4	1
4				8	2	1	3
5					2		

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